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23 July 2015

United States Environmental Protection Agency, Region 9 75 Hawthorne Street (SFD-8-2) San Francisco, California 94105

Attention:

Ms. Catherine Brown

Remedial Project Manager

Arizona Department of Environmental Quality 1110 West Washington Street Phoenix, Arizona 85007

Attention:

Mr. Brian Stonebrink

Environmental Project Manager

Subject

Extraction Well E-103 and Pipeline Completion Report

Phoenix-Goodyear Airport South Superfund Site

Goodyear, Arizona

Dear Ms. Brown and Mr. Stonebrink:

The Goodyear Tire and Rubber Company (GTRC) is providing the enclosed Extraction Well E-103 and Pipeline Completion Report for the Phoenix-Goodyear Airport South Site, Goodyear, Arizona. This completion report documents the installation of extraction well E-103 and associated conveyance pipeline in September 2014.

Please feel free to call me at (330) 796-0578 if you have any questions regarding this report.

Sincerely

Jeff Sussman

Global Remediation Manager

USEPA Region 9 / ADEQ 23 July 2015 Page 2

# Enclosures:

Agency Evaluation of the GTRC Responses to Review Comments on the Draft Extraction Well E-103 and Pipeline Completion Report Letter dated 25 June 2015 GTRC Response to Comments Table dated 21 July 2015 Extraction Well E-103 and Pipeline Completion Report dated 23 July 2015

Brown & Caldwell, Inc.; Attn: Larry Matthews (electronic)
Brown & Caldwell, Inc.; Attn: Lauren Handley, (electronic)
City of Goodyear; Attn: Mark Holmes, (electronic)
City of Goodyear; Attn: Gretchen Erwin, (electronic)
City of Phoenix; Attn: Julie Riemenschneider, (electronic)
City of Phoenix; Attn: Joseph Husband, (electronic)
City of Phoenix; Attn: David Gordon, (electronic)

Conger Environmental; Attn: Jennie Conger, (electronic)

Gilbane, Inc.; Attn: Larry Phillips, (electronic) Gilbane, Inc.; Attn: Kent Baugh, (electronic)

Haley & Aldrich, Inc.; Attn: Paula Panzino (electronic) Hargis + Associates, Inc.; Attn: Michael Long, (electronic) Hargis + Associates, Inc.; Attn: Chris Legg, (electronic)

Los Alamos Technical Associates, Inc.; Attn: Todd Struttmann, (electronic) The Goodyear Tire & Rubber Company; Attn: Jeff Sussman, (electronic) The Goodyear Tire & Rubber Company; Attn: Ron Clark, (electronic)



To:

Catherine Brown, Remedial Project Manager, EPA Region 9

From:

Larry Phillips, R.G., Senior Project Manager, Gilbane Federal/Phoenix

Date:

June 25, 2015

Subject:

Agency Evaluation of the GTRC Responses to Review Comments on the Draft

Extraction Well E-103 and Pipeline Completion Report, Phoenix-Goodyear

Airport-South Superfund Site, Goodyear, Arizona

Contract /TO:

EP-S9-08-03 / TO # 0006

Gilbane DCN:

07163.0007.0299

Gilbane Federal (Gilbane), on behalf of the U.S. Environmental Protection Agency (EPA), reviewed the document containing the responses to comments on the draft report titled Extraction Well E-103 and Pipeline Completion Report, Phoenix-Goodyear Airport-South Superfund Site, 1658 South Litchfield Road, Goodyear, Arizona. Haley & Aldrich, Inc. submitted the document with the responses on May 27, 2015, on behalf of the Goodyear Tire & Rubber Company (GTRC).

Gilbane found the responses provided to our comments to be satisfactory, with the following exceptions.

- Response to General Comment No. 1 and No. 2 Section VI.F of the 1991 Consent Decree states that all activities undertaken by Defendants pursuant to this Consent Decree shall be performed in accordance with the requirements of applicable State laws and regulations. In accordance with Arizona Revised Statutes (ARS), Title 32, Sections 32-101(B)(12), 32-101(B)(15) and 32-125, and Arizona Administrative Code (AAC) R-4-30-304, final documents must have the seal and signature of an Arizona Registrant; either an Arizona Registered Geologist or Professional Engineer. ARS, Title 32, Section 32-125 specifies that: (A) each seal shall bear the name of the registrant and shall state the profession in which the registrant is permitted to practice; (B) plans, specification, plats or reports prepared by the registrant or registrant's bona fide employee shall be issued under the registrant's seal; and (C) the registrant is responsible for all documents that the registrant signs, stamps or seals, including those documents prepared by the registrant's bona fide employee.
- Minor Comment No. 10 The work plan to construct extraction well E-103 (dated 31 January 2014) identifies on page 3 that development will continue until the produced water is visibly clear and essentially sediment free. Gilbane recommends that Section 4 of the final report include a statement regarding the clarity of the extracted groundwater upon the completion of well development.
- Minor Comment No. 14 Gilbane recommends that the maximum extraction capacity of well E-103 as discussed in the final report, should be based on field tests and known conditions, not a theoretical estimate.

Agency Evaluation of GTRC RTCs on E-103 and Pipeline Completion Report, Phoenix-Goodyear Airport South Superfund Site June 25, 2015 Page 2 of 2



By way of an e-mail sent to EPA and Gilbane on June 10, 2015, the Arizona Department of Environmental Quality found the responses to be acceptable and had no further comments. Approval of the responsiveness summary by EPA is recommended, as qualified. A final report should be submitted for confirmation that all responses and recommendations have been incorporated.

Please contact Larry Phillips (602-792-6811; <a href="mailto:lphillips@gilbaneco.com">lphillips@gilbaneco.com</a>) with any questions about this technical memorandum.

cc: Gilbane Project File (electronic copy



Document titled, Extraction Well E-103 and Pipeline Completion Report, Phoenix-Goodyear Airport-South, 1658 South Litchfield Road, Goodyear, Arizona. Prepared by Haley & Aldrich, Inc., dated January 30, 2015, and submitted by Jeff Sussman of the Goodyear Tire & Rubber Company in a letter dated 30 January 2015.

Comment Number	Poviowor(s)	Section(s)	Page(s)	Figure(s)	Table(s)	Comment	Response to Comment
General (Gen-)	Reviewer(s)	Section(s)	Page(s)	rigure(s)	(apie(s)	Comment	
Gen-1	ADEQ		-			Final reports should be sealed by a professional engineer and/or geologist who is registered in the state of Arizona. The Engineering drawings were sealed but not the overall report.	We reviewed the Consent Decree and could not locate a requirement to stamp or seal documents. Could ADEQ provide a reference for this requirement for NPL projects that are led by the USEPA?
Gen-2	Gilbane					Gilbane concurs with ADEQ's General Comment 1 with the following qualifier: In consideration of the scope of the work described in the report (i.e., well installation, aquifer testing, and conveyance pipeline construction), Gilbane recommends that the final report be signed/sealed by a geologist and an engineer registered in the state of Arizona.  Gilbane's 25 June 2015 Comment to GTRC's Response - Section VI.F of the 1991 Consent Decree states that all activities undertaken by Defendants pursuant to this Consent Decree shall be performed in accordance with the requirements of applicable State laws and regulations. In accordance with Arizona Revised Statutes (ARS), Title 32, Sections 32-101(B)(12), 32-101(B)(15) and 32-125, and Arizona Administrative Code (AAC) R-4-30-304, final documents must have the seal and signature of an Arizona Registrant; either an Arizona Registered Geologist or Professional Engineer. ARS, Title 32, Section 32-125 specifies that: (A) each seal shall bear the name of the registrant and shall state the profession in which the registrant is permitted to practice; (B) plans, specification, plats or reports prepared by the registrant or registrant's bona fide employee shall be issued under the registrant's seal; and (C) the registrant is responsible for all documents that the registrant signs, stamps or seals, including those documents prepared by the registrant's bona fide employee.	We reviewed the Consent Decree and could not locate a requirement to stamp or seal documents. Could Gilbane provide a reference for this requirement for NPL projects that are led by USEPA?  The final report has been stamped by the Arizona registrants.
Gen-3	Gilbane	<del></del>				The report should include sufficient summary information of well installation, aquifer testing, and pipeline construction so that the reviewer does not have to go to the appendices and find the details. Minor comments are provided below pertaining to this general comment.	All of the Consent Decree-required document elements have been provided It is redundant and costly to repeat details within the text of the report when the information has already been provided in the appendices. GTRC has discussed with, and USEPA has been amenable to, streamlining deliverable such as this. GTRC respectfully disagrees with the request to duplicate material in the report body.
Gen-4	Gilbane					The report does not include initial TCE concentration data for extraction well E-103 after being brought online, which was identified as November 6, 2014 in the November Monthly report. Include the TCE concentration data in the report, or reference the document where this information has been reported. In addition, the report should state the planned frequency of water level measurement and groundwater sampling at E-103.	GTRC has verified that water quality and monitoring information relating to I 103 was provided in the 2014 Second Semi-annual Report.



Document titled, Extraction Well E-103 and Pipeline Completion Report, Phoenix-Goodyear Airport-South, 1658 South Litchfield Road, Goodyear, Arizona. Prepared by Haley & Aldrich, Inc., dated January 30, 2015, and submitted by Jeff Sussman of the Goodyear Tire & Rubber Company in a letter dated 30 January 2015.

Comment Number	Reviewer(s)	Section(s)	Page(s)	Figure(s)	Table(s)	Comment	Response to Comment
Major (Maj-) C	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN	Goodion(o)	, ugo(e)				
Maj-1							
Minor (Min-) C	Comments						
Min-1	Gilbane	2	2			First sentence: Recommend that text be added referring to Appendix B for the access easement agreement.	The text has been modified to reflect that the access agreement has been attached to the well permit in Appendix B.
Min-2	Gilbane	2	2	-		Second paragraph, last sentence: As the location of well E-103 and the route of the pipeline from this well to the existing pipeline at well E-102 are on private property, was any utility clearance performed by a private utility locator?	No private utility location was performed. Haley & Aldrich notified Arizona Bluestake at least 48 hours prior to drilling to identify publicly-owned subsurface utilities near the proposed boring location. GTRC fails to see the relevance of knowing if a private utility locator was used.
Min-3	ADEQ & Gilbane	2	2			Page 2, Third paragraph. The results of the hydrostatic testing per the as-built (Sheet G-2, Note Q) should be included in the text.	The text has been modified to include a reference to the testing results in Appendix E.
Min-4	ADEQ & Gilbane	2	2			Page 2, Fifth paragraph. A statement should be included indicating the pipeline was installed per plan specifications. If the pipeline was not installed per plan, the variances should be listed and the rationale indicated. Any revisions to the original design should be noted and the rationale indicated.	All of the system drawings are now completed as "as-builts". As such, any required field modifications are illustrated on these drawings. In the future, GTRC plans to indicate any required field changes on the drawings only. For this report, the text has been modified to state installation was in accordance with the design with the exception of the installation of a shed to enclose the electrical panel.
Min-5	Gilbane	3	3			Second paragraph, first sentence and Appendix C: The geologic log for E-103 does not follow the industry standard of using the Unified Soil Classification System (USCS). The soil type identified and soil group symbol are not provided. The log should be reviewed and revised in the final report to follow the USCS format.	Logging of the geologic materials in E-103 used the same soil classification system used for the other GTRC extraction wells in the area for direct lithologic and water production performance comparison. For this report, the geologic logs were revised to include soil types and soil group symbols consistent with the USCS classifications. Revised geologic logs have been added to the report. USCS classification will be added to subsequent drilling logs as well.
Min-6	ADEQ	3	3			Page 3, Bullet 3. According to Appendix C, the filter pack was installed from 1 foot below the bottom of the screen, not the bottom of the casing.	The text has been modified to reflect that the filter pack was placed 1 foot from the bottom to 5 feet above the top of the screen.
Min-7	ADEQ	3	3			Page 3, Bullet 4. Please indicate the time allowed for hydration before setting the cement-bentonite grout seal.	Approximately 1 hour lapsed between the setting of the bentonite seal and placement of the bentonite grout.
Min-8	ADEQ	3	3			<ul> <li>Page 3, Bullet 5. Please indicate the emplaced lift size and set time and whether the grout material was bentonite grout or a cement-bentonite grout mixture.</li> </ul> Bentonite grout was used and left to set overnight.	
Min-9	Gilbane	3	3			Were centralizers used in the installation of the well casing?	Yes, centralizers were used for installation of the well casing.



Document titled, Extraction Well E-103 and Pipeline Completion Report, Phoenix-Goodyear Airport-South, 1658 South Litchfield Road, Goodyear, Arizona. Prepared by Haley & Aldrich, Inc., dated January 30, 2015, and submitted by Jeff Sussman of the Goodyear Tire & Rubber Company in a letter dated 30 January 2015.

Comment Number	Reviewer(s)	Section(s)	Page(s)	Figure(s)	Table(s)	Comment	Response to Comment
Min-10	ADEQ & Gilbane	4	4		-	Page 4, First paragraph. Please indicate development parameters/indicators. Second paragraph. Please indicate how additional development was accomplished.	Development parameter indicators were not collected. The second paragraph of Section 4 states additional development was performed using a temporary pump.
						Gilbane's 25 June 2015 Comment to GTRC's Response - The work plan to construct extraction well E-103 (dated 31 January 2014) identifies on page 3 that development will continue until the produced water is visibly clear and essentially sediment free. Gilbane recommends that Section 4 of the final report include a statement regarding the clarity of the extracted groundwater upon the completion of well development.	Text has been modified to reflect that pumping of the groundwater continued until the filters did not contain visible captured sediments.
Min-11	Gilbane	5	5			While the extraction pump is described, information is not provided on other major components at the E-103 wellhead. Examples of these components not described in this section are the pump discharge pipe, aboveground valving components of the discharge pipe, electrical service details (voltage, phase, and ampere), and communication system and associated process control for pump control. The description of these major components should reference the specific sheet(s) of the as-built drawings for the asbuilt details. The location of the isolation valve for E-103 being just before the connection to the existing pipeline at well E-102, and not at the E-103 wellhead, should also be mentioned.	
Min-12	ADEQ	6	6	<del></del>		Page 6, Sections 6.1 and 6.2, Please provide the calculations used to derive values such as hydraulic capacity, and pumping capacity which are discussed in these sections. This information could be provided as an appendix.	The transmissivity was estimated based on the specific capacity measured at the end of the step-test (maximum pumping rate) using the following derivation of the nonequilibrium well equation (Cooper and Jacob, 1946): Q/s=T/(264log(0.3Tt/r²S)) where Q=flow rate, gpm; s=drawdown/ft; T=transmissivity, gpd/ft; t=time, days;r=well radius, ft; and S=storage coefficient (unitless). The value is regarded as a rough estimate given the short duration of the step-test.
Min-13	Gilbane	6.1	6			Documentation of field data from the step test needs to be included with the report. At a minimum, flow rate, drawdown observed at E-103 and the observation wells, and other field observations/data need to be included in this documentation to enable the independent verification of the hydrogeological interpretations and parameter estimates from the step test.	A table documenting flow rate in E-103 and drawdown observed in the E-103 and the observation wells (and their respective distances to E-103) has been prepared and will be included with the revised report.



Document titled, Extraction Well E-103 and Pipeline Completion Report, Phoenix-Goodyear Airport-South, 1658 South Litchfield Road, Goodyear, Arizona. Prepared by Haley & Aldrich, Inc., dated January 30, 2015, and submitted by Jeff Sussman of the Goodyear Tire & Rubber Company in a letter dated 30 January 2015.

Comment Number	Reviewer(s)	Section(s)	Page(s)	Figure(s)	Table(s)	Comment	Response to Comment
Min-14	Gilbane	6.2	6		-	What information and evaluation methods were used to establish the finding in this section that E-103 was capable of pumping approximately 2,200 gpm? A constant rate pump test was not performed based on the results from the step test, and the maximum extraction rate during the step test was 462 gpm.	The pumping capacity estimate is a rough, theoretical estimate based on the specific capacity observed during the step-test, available drawdown (the depth to the top of the well screen minus the static water level being the maximum available drawdown), and a factor of safety. The well diameter, however, is not large enough to accommodate a pumping rate of this magnitude. The purpose in providing the estimate is solely to illustrate that the well's theoretical pumping capacity far exceeds the estimated design flow required to effect hydraulic capture (approximately 250 gpm).
							Text of Section 6.2 has been updated to state that the maximum capacity of the well exceeds the target rate and capacity of the pump. The well has actively operated at flows approaching 400 gpm, which far exceeds the 250-gpm design flow.
Min-15	ADEQ			1		Figure 1 is not mentioned in text.	Text of Section 1 and Section 6 has been modified to include a reference to Figure 1.
	Gilbane	6	6	1		First paragraph, third sentence: Gilbane recommends the text include a reference to Figure 1 at the end of the listing of observation wells.	
Min-16	ADEQ		ii	2 & 3		Figures 2 & 3 titles in the Table of Contents should be corrected to match the figures.	
Min-17	ADEQ		1, 5, & 8			be identified with an 'a' and 'b' (i.e., 2014a and 2014b) and ordered	The Haley & Aldrich references will be distinguished with an "a" and "b" as requested, and the text on p. 6 has been revised to include the Bierschenk reference and date.
Min-18	Gilbane			2		Recommend that notes be added to figure that address the	The figure will be annotated accordingly with the E-103 extraction rate and the static water level measured prior to the start of the pumping test.
Min-19	Gilbane	5 & App C	5			The horizontal and vertical coordinates for well E-103 need to be included in the report (Section 5 and/or Appendix C). Horizontal coordinates should be based on a NAV83 datum and the vertical elevation to 0.01 foot based on NAVD88. The reference point at well E-103 for the surveyed coordinates also should be stated in the final report.	The text has been modified to include Section 8. Well Surveying.



Document titled, Extraction Well E-103 and Pipeline Completion Report, Phoenix-Goodyear Airport-South, 1658 South Litchfield Road, Goodyear, Arizona. Prepared by Haley & Aldrich, Inc., dated January 30, 2015, and submitted by Jeff Sussman of the Goodyear Tire & Rubber Company in a letter dated 30 January 2015.

Comment Number	Reviewer(s)	Section(s)	Page(s)	Figure(s)	Table(s)	Comment	Response to Comment
ditorial (E-)	Comments						
E-1	Gilbane	1	1		18 1	Last sentence: Sentence does not make sense as written. Should a period be inserted after "(October 2014)" and then the subsequent text "installing E-103 as described below." be deleted?	The text has been modified.
E-2	Gilbane	5	5			First sentence: Identify the units for the flow rate range, assumedly gallons per minute (gpm).	The text has been modified to include the units of flow rate.
E-3	Gilbane	5	5	<del></del>		Last sentence: Wording needs to be revised to identify the pump installation depth with respect to feet below ground surface (bgs) and that the variable frequency drive functions to throttle the flow rate. Recommend wording: "Yellow Jacket removedand installed at 185 feet below ground surface a 40-horsepowerwith a variable frequency drive to throttle the flow"	The text has been modified.

# ALDRICH



EXTRACTION WELL E-103 AND PIPELINE COMPLETION REPORT PHOENIX-GOODYEAR AIRPORT-SOUTH SUPERFUND SITE 1658 SOUTH LITCHFIELD ROAD GOODYEAR, ARIZONA

By Haley & Aldrich, Inc. Phoenix, Arizona

For The Goodyear Tire & Rubber Company Akron, Ohio



File No. 39049-120 July 2015

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Appendix F – Wellhead Survey



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Figure No.	Title
1	Extraction Well E-103 and Pipeline Location Map
2	Drawdown vs Distance, End of E-103 Step Test
3	Step-Drawdown Test Data - S/Q vs Q, E-103



# 1. Introduction

This report documents the installation of extraction well E-103 and construction activities to connect the new well to the existing pipeline at extraction well E-102 (Figure 1). Extraction well E-103 was installed to comply with the hydraulic containment requirement under Section VII.C.1.a of the 1991 Consent Decree. E-103 was located in accordance with the results of a hydrogeologic evaluation completed using the Phoenix-Goodyear Airport South (PGA-S) groundwater model approved by the U.S. Environmental Protection Agency (USEPA) and Arizona Department of Environmental Quality (ADEQ) for this use on 7 November 2013. The design and installation of well E-103 was detailed in "Work Plan to Construct Extraction Well E-103" (Haley & Aldrich, 2014a) which was approved by USEPA and ADEQ on 28 February 2014. Operation of well E-103 will optimize capture of the northern Subunit C groundwater plume at PGA-S. Pipeline construction was completed in two phases: Phase 1 was completed in March 2014, followed by Phase 2 in October 2014 after installation of extraction well E-103.



# 2. Pipeline Installation

Phase 1 of the pipeline construction was completed prior to installing E-103 and included obtaining easement access for the well and pipeline; the installation of the water conveyance pipeline, communications, and electrical conduits; and compaction testing of the main pipeline's backfill and hydrostatic testing of the water lines. As-built drawings for the E-103 pipeline are included in Appendix A. A copy of the access agreement has been included in the well permit application in Appendix B. The second phase of work included:

- Installing electrical and communications conductors;
- Completing the aboveground infrastructure;
- Connecting the pipeline to the existing pipeline of E-102;
- Removing E-102 from service by pulling the pump and securing the wellhead and compound;
- Setting up power and communications at both E-102 and E-103 locations to support E-103 operation and controls; and
- Installing fencing to secure E-103.

Haley & Aldrich, Inc. (Haley & Aldrich) submitted the pipeline design to City of Goodyear Engineering on 13 February 2014 for review and approval prior to its installation. The City of Goodyear permit was issued on 20 March 2014. While waiting for the permit, B&F Contracting, Inc. (B&F) built a well pad to drill well E-103 and construct the E-103 compound. A land survey was also conducted to locate the pipeline easement boundaries and E-103 well site. B&F also notified Arizona Bluestake to coordinate the location of the public underground utilities within the pipeline easement.

Phase 1 began on 13 March 2014. The pipeline and aboveground conduits were constructed, installed in the trench, then backfilled and compacted. A temporary cap was then placed on each end of the pipeline and conduits on 28 March 2014 to complete Phase 1 of construction. The end of the pipeline at E-103 was buried and its location marked to avoid potential damage from vehicle traffic and farming operations while drilling and installing E-103. The results of the hydrostatic testing can be found in Appendix E.

Phase 2 construction was initiated while drilling E-103 and was completed on 14 October 2014. The only major change to the original design was the installation of a fiberglass reinforced plastic shed to enclose the electrical panel.



# 3. Extraction Well E-103 Installation

A Notice of Intent to install well E-103 was submitted to the Arizona Department of Water Resources on 5 March 2014 (Appendix B).

Haley & Aldrich also notified Arizona Bluestake at least 48 hours prior to drilling to identify publicly-owned subsurface utilities near the proposed boring location. B&F then constructed a well pad and set and secured a 30-inch diameter conductor casing 20 feet below ground surface.

Yellow Jacket Drilling Services (Yellow Jacket) mobilized to the site on 14 April 2014; drilling and sampling oversight were provided by Haley & Aldrich and a geologist from Los Alamos Technical Associates. Well E-103 was drilled using the dual-rotary drilling method to advance a cased borehole to the top of the Middle Fine Unit. Grab samples were collected at 5-foot intervals from the cyclone separator and the lithology recorded. E-103 was constructed as described below:

- 1. The borehole terminated at a depth of 325 feet (top of the Middle Fine Unit);
- 2. A 12-inch diameter, low carbon steel casing was installed with a 10-foot stainless steel sump and 90 feet of 50-slot stainless-steel louvered screen;
- 3. A filter pack was placed 1 foot from the bottom to 5 feet above the top of the screen, followed by 5 feet of choke sand above the filter pack, near the Subunit B/Subunit C contact;
- 4. A 40-foot thick, high-solids, bentonite seal was placed above the choke sand, adequately extended and set into Subunit B, and allowed to be hydrated for 24 hours;
- 5. A bentonite grout was placed from the top of the seal to approximately 20 feet below grade around the casing; and
- 6. A cement grout was applied to the upper 20 feet of the casing.

E-103 installation was completed on 25 April 2014. A well log and construction diagram are included in Appendix C.



# 4. Well Development

The construction of the 143rd Avenue alignment located immediately adjacent to the E-103 well pad and pipeline commenced during the installation of E-103. The 143rd Avenue alignment is offset from the E-103 pipeline by 10 feet. It was thought these construction activities might prevent site access once the drill rig was removed; E-103 was therefore developed with the same drill rig once the construction of E-103 was complete. The drill rig was positioned over the well and used to swab and airlift groundwater and sediment from the well bore into a 21,000-gallon baker tank. The water was allowed to decant and was then taken to the Subunit A treatment compound to be treated by the air stripper.

Additional E-103 development was completed in October 2014, just prior to connecting the aboveground pipeline and controls. A temporary pump, powered by a portable generator, was installed in the well at a depth of 180 feet and pumped at a sustained rate of approximately 250 gallons per minute (gpm) for two hours. The pumped groundwater was passed through sand filters and discharged into the completed pipeline for treatment by the Subunit C treatment system and discharge into the new Bullard Wash pipeline. Pumping of groundwater continued until the filters did not contain visible captured sediments.



# 5. Pump Installation

As discussed in the "Groundwater Model Update Report" (Haley & Aldrich, 2014b), the required flow rate needed for Subunit C plume capture is in the range of 220 to 350 gpm. The anticipated yield of well E-103 was 400 gpm; therefore, the well was designed to accommodate a pump capable of 400 gpm to provide additional flexibility to the operational flowrate. In October 2014, following completion of well development activities, the permanent extraction pump was installed in E-103. Yellow Jacket removed the temporary pump and installed a 40-horsepower Grundfos submersible pump (model number 475S-400-4) at a depth of 185 feet. The pump is equipped with a variable frequency drive to throttle the flow rate to between 100 and 450 gpm.



### **Well Testing** 6.

### 6.1 STEP-TEST PROCEDURES

Haley & Aldrich performed a step-test on well E-103 on 10 December 2014. The step-test was comprised of four, 1-hour long steps at progressively increased pumping rates of approximately 109, 226, 344, and 462 gpm. Observation wells GMW-15UC, GMW-16UC, GMW-17UC, GMW-18UC, GMW-19LC, GMW-20LC, GMW-25LC, and GMW-26LC (Figure 1) were monitored using a water level meter during each step.

Well E-103 was shut down and allowed to recover approximately one hour between steps, allowing the water level to approach static conditions (i.e., approximately 90 percent or more recovery from the residual drawdown). The specific capacity (flow rate per feet of drawdown) decreased from over 50 gpm per foot in the first step, to 25 to 26 gpm per foot in subsequent steps. This trend is typical of step-tests, as the short duration of the steps usually means the first step or steps did not reach equilibrium, which results in a high bias in specific capacity in the earliest step(s).

Observation wells GMW-15UC, GMW-16UC, GMW-17UC, GMW-18UC, GMW-19LC, GMW-20LC, GMW-25LC, and GMW-26LC were monitored during each step. Figure 2 illustrates drawdown versus distance (to pumping E-103; wherein drawdown in E-103 is plotted against an effective borehole radius of 0.5 foot).

Based on the trend line fitted to the observation well data, the drawdown in a theoretical 100 percent efficient well is in the range of 10 to 12 feet, which implies that E-103, with approximately 18 feet of drawdown at the conclusion of this final step, is approximately 50 to 65 percent efficient. Through distance-drawdown analysis of the above plot, which considers the slope of the trend line, the flow rate at the final step (460 gpm), and the approximate saturated thickness in the vicinity of Subunit C (approximately 130 feet), the estimated hydraulic conductivity of Subunit C is in the range of 80 to 90 feet per day.

Table I. Well E-103 Step-Test Data

Service Control of		Step	Static	1		2	2		3		l e
	Distance	Flow Rate (gpm)		10	)9	22	26	.34	14	46	52
Observation Well	to E-103 (feet)	Pumping Well E-103	95.4	97.6	2.1	104.2	8.8	109.5	14.1	114.0	18.6
GMW-15UC	1577		81.7	81.9	0.1	81.9	0.2	82.1	0.4	82.2	0.4
GMW-16UC	970		85.8	85.9	0.1	86.2	0.4	86.4	0.7	86.5	0.8
GMW-17UC	1450	Depth to	87.3	87.4	0.1	87.5	0.2	87.6	0.4	87.6	0.4
GMW-18UC	1573	Water/	89.1	89.1	0.0	89.2	0.1	89.3	0.2	89.3	0.2
GMW-19LC	610	Drawdown	87.7	87.9	0.2	88.4	0.7	88.8	1.1	89.0	1.3
GMW-20LC	921	(feet)	92.6	N	M -i	NI	М	Ν	M	93.7	1.0
GMW-25LC	265		94.6	95.0	0.3	95.9	1.3	96.6	2.0	97.2	<i>2.</i> 5
GMW-26LC	405		90.0	90.3	0.3	91.0	1.0	91.6	1.6	92.0	2.0
E-103 Specif	E-103 Specifc Capacity (gpm/foot)			50.7		25.7		24.4		24.9	
gpm = gallo	gpm = gallons per minute										

NM = not measured



# 6.2 PROJECTED CAPACITY OF EXTRACTION WELL E-103

Based on the available drawdown in E-103 (over 110 feet), the step-test pumping rates - the highest of which exceeded 460 gpm - and the specific capacity observed at the end of the step test, the well has ample capacity to meet the target flow rate of roughly 350 gpm (previously estimated based on groundwater modeling of plume capture) under long-term operating conditions. Using a graphical method by Bierschenk (Bierschenk, 1964), where inverse values of specific capacity are plotted versus flow rate and a trend line fitted to the data (Figure 3), the estimated maximum capacity of well E-103 for the existing available drawdown exceeds the target rate and the capacity of the pump.

Based on the well-screen open area, well E-103 is capable of pumping approximately 2,200 gpm without exceeding the typical maximum recommended entrance velocity of 0.1 foot per second. E-103 can therefore be pumped at its maximum theoretical projected capacity (approximately 1,200 to 1,500 gpm) without exceeding the entrance-velocity design criterion of 0.1 foot per second.



# 7. Investigation Derived Waste Management

# **7.1 SOIL**

The soil cuttings generated during drilling were collected in plastic-lined, roll-off boxes and transported to the Waste Management Butterfield Disposal (WMBD) facility under the existing solid waste profile for PGA South soil cuttings. Prior to transport, accumulated water in the roll-offs was decanted and pumped into a 21,000-gallon, on-site baker tank for transport to the Subunit A air stripper for treatment and disposal, and/or disposal at an off-site facility. Wet soil in the roll-off boxes was allowed to air-dry prior to transport to the landfill.

A total of 68.04 tons of drill cuttings was disposed. Appendix D contains disposal documentation for the drill cuttings that were transported to WMBD.

# 7.2 WATER

Liquid waste consisted of water generated during drilling, development, and testing. Water generated during drilling and Phase 1 development was either transported to the Subunit A treatment compound and discharged to the air stripper or to the WMBD facility under the existing liquid waste profile. Water generated during Phase 2 development and testing was discharged directly to the pipeline, conveyed to the Subunit C groundwater treatment system, treated, and discharged to the Bullard Wash pipeline. Well E-103 drilling, development, and testing activities generated 552.5 tons (133,000 gallons) of water. Table II below provides the quantities of generated water, the activity generating the water, and the final discharge/disposal location of the water.

Table II. Activity Generating the Water and Final Discharge/Disposal Location

Activity	Discharge/Disposal Location	Quantity (Tons)
Drilling and Phase 1 Development	Subunit A Treatment Compound	49.9
Phase 2 Development	Subunit C Treatment Compound	124.7
Drilling and Phase 1 Development	WM's Butterfield Landfill	93.3
Testing	Subunit C Treatment Compound	284.6
	TOTAL	552.5

Appendix D contains disposal documentation for the water transported to the WMBD facility.



# 8. Well Surveying

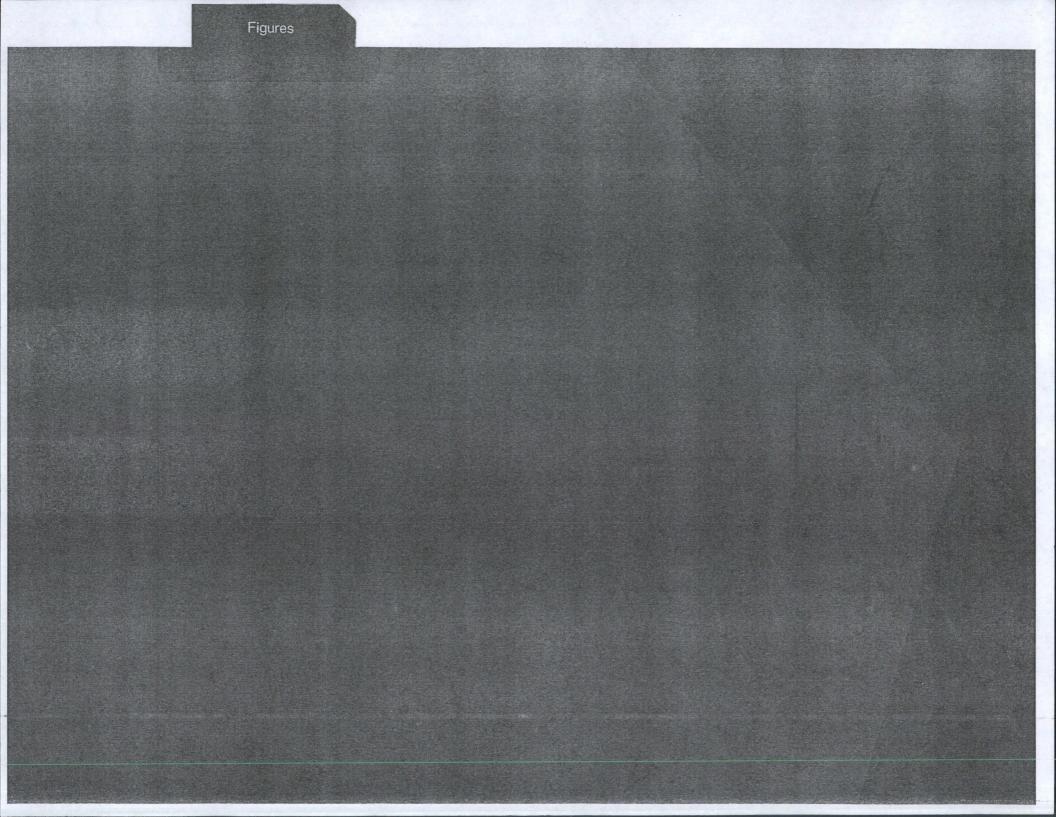
The latitude, longitude, and vertical datum of the water level measuring port of extraction well E-103 were surveyed on 8 December 2014 by Morrison Maierle, Inc. of Tempe, Arizona, an Arizona-licensed land surveyor. The well's elevation was measured to within a vertical accuracy of 0.01 foot from the top of casing relative to the local benchmark. Surveyed well coordinates are provided in the NAD83 state plane coordinate system and reference the NAVD88 vertical datum. The survey data are provided in pdf format in Appendix F.

# References

- 1. Bierschenk, W.H., 1964. *Determining Well Efficiency by Multiple Step-Drawdown Tests*. International Association of Scientific Hydrology, Publication 64.
- 2. Haley & Aldrich, Inc., 2014a. Work Plan to Construct Extraction Well E-103, Phoenix-Goodyear Airport South, Goodyear, Arizona. 31 January.
- 3. Haley & Aldrich, Inc., 2014b. *Groundwater Model Update Report, Phoenix-Goodyear Airport South, Goodyear, Arizona*. 21 January.

 $G: \label{local-condition} G: \label{local-con$ 





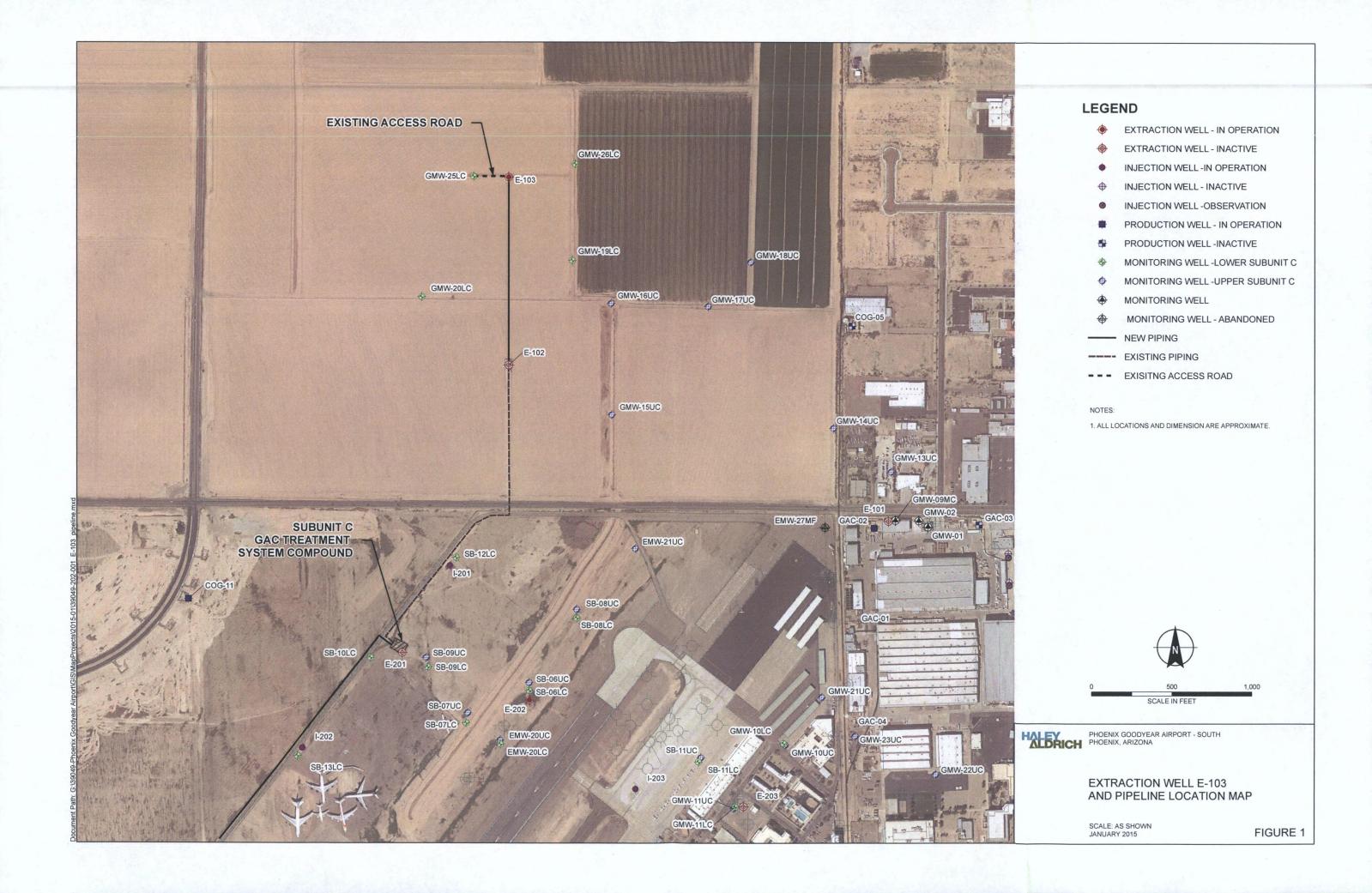
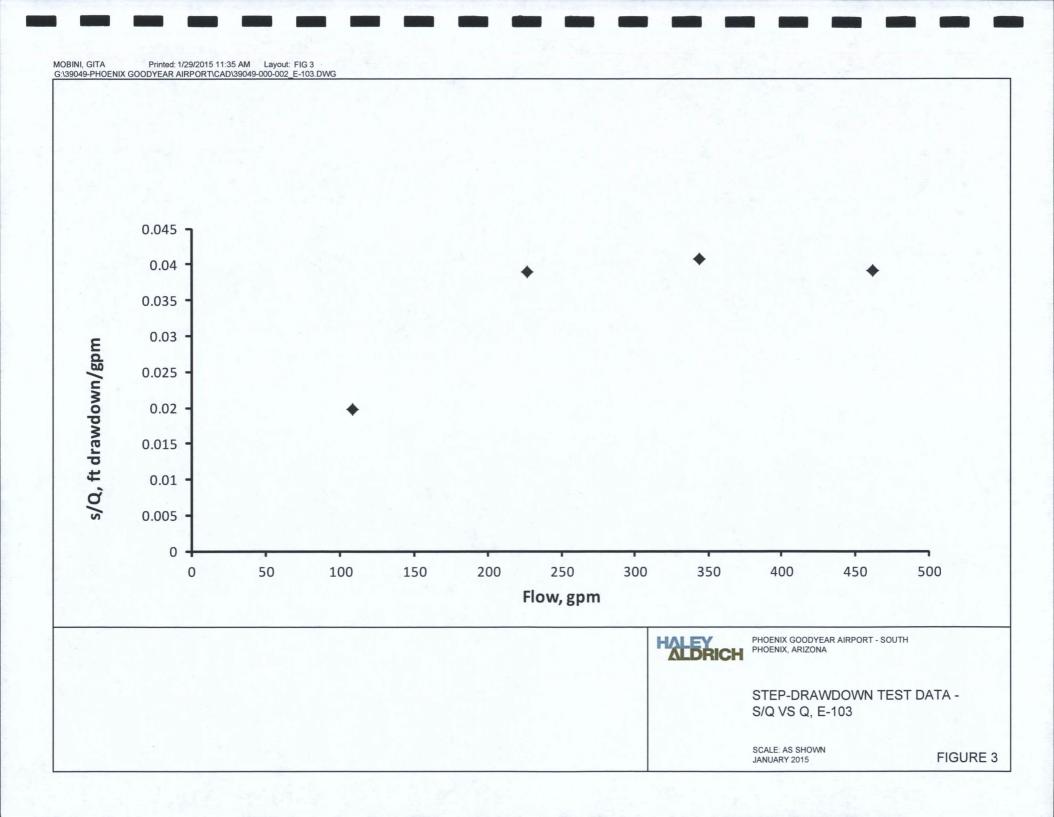


FIGURE 2

JANUARY 2015



**APPENDIX A** 

**As-Built Drawings** 

E-103 As-Built Drawings

# PHOENIX-GOODYEAR AIRPORT

E-103 WELL AND WATER LINE INSTALLATION GOODYEAR, ARIZONA

# BLUE STAKE NOTE

ARIZONA BLUE STAKE NOTIFICATION REQUIRED TWO FULL WORKING DAYS PRIOR TO EXCAVATION 1-800-782-5348 IN MARICOPA COUNTY (602) 263-1100

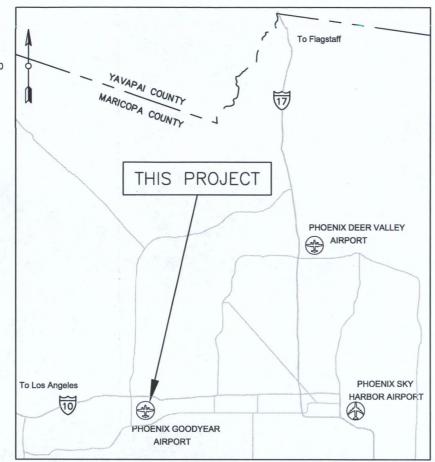
# **BENCHMARKS**

BRASS CAP IN WEST HANDHOLE AT INTERSECTION OF YUMA ROAD AND LITCHFIELD ROAD.

NORTHING (NAD83): 886208.62 EASTING (NAD83): 565269.77 ELEVATION (NAVD88): 964.42

COTTON PICKER SPINDLE AT THE SECTION CORNER AT THE INTERSECTION OF BULLARD AVE. AND YUMA RD.

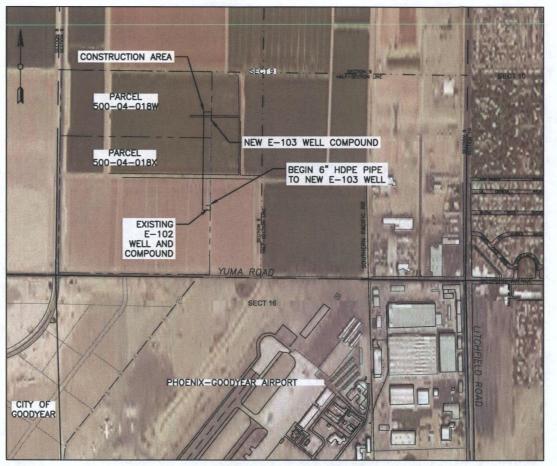
NORTHING (NAD83): 886267.71 EASTING (NAD83): 559998.78 ELEVATION (NAVD88): 979.40



LOCATION MAP NOT TO SCALE

REV DATE

DESCRIPTION



VICINITY MAP

# 1" = 600"

(SCALE FOR DRAWING FORM 22" X 34")

# AS-BUILT CERTIFICATION

HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

TODD JOSEPH STRUTTMANN 1/28/2015 DATE

LEGAL DESCRIPTION FOR

9 MARICOPA COUNTY, ARIZONA

OWNER/DEVELOPER

756 PARK MEADOW ROAD WESTERVILLE, OHIO 43081 (614) 508-1200

200 INNOVATION WAY

AKRON, OHIO 44316

(330) 796-0578

**ENGINEER** 

TOWNSHIP 1 NORTH, RANGE 1 WEST, SECTIONS

EXISTING INJECTION AND EXTRACTION WATER LINES

OWNED BY THE GOODYEAR TIRE & RUBBER

THE GOODYEAR TIRE & RUBBER COMPANY

LOS ALAMOS TECHNICAL ASSOCIATES, INC.

PROJECT SITE

**UTILITIES** 

AS-BUILT HORIZONTAL CONTROL VERIFIED BY ARTHUR A. WITZELL, REGISTERED LAND SURVEYOR, 10/20/2014. INFINITY ENGINEERING SERVICES, INC. P.O. BOX 88034 PHOENIX, AZ 85080 (602) 318-5785

# DRAWING INDEX

13 PLC DISCRETE/ANALOG INPUTS

P:\GOODYEAR\PGA\5110 PGA\E-103 PIPELINE DESIGN\DRAFTING - GIS\CADD\02-GENERAL\G-1 COVER SHEET.D

DWG #	SHT #	DESCRIPTION	DWG #	SHT #	DESC	RIPTION					
G-1	1	TITLE SHEET	E-6	14	PLC	DISCRETE	OUTPUTS	4			
G-2	2	GENERAL NOTES	E-7	15	FUTU	RE ELECT	RICAL SPARE SHEET				
G-3	3	LEGEND AND ABBREVIATIONS	E-8	16	FUTU	RE ELECT	RICAL SPARE SHEET				
C-1	4	E-103 6" HDPE PIPE PLAN AND PROFILE	E-9	17	FUTU	RE ELECT	RICAL SPARE SHEET				
C-2	5	E-102 COMPOUND DETAILS	E-10	18	E-10	3 INTERN	AL PANEL LAYOUT				
C-3	6	E-103 COMPOUND DETAILS	E-11	19	E-10	3 EXTERN	AL PANEL LAYOUT				
C-4	7	E-103 COMPOUND CONTROL PANEL BUILDING						-			_
C-5	8	E-103 PIPE AND CONDUIT DETAILS	adesional Engine	100	5	1/16/15	AS-BUILT	EV	NS	5/	75
E-1	9	ONE LINE DIAGRAM AND ELECTRICAL DETAILS	36269		4		ADDED FIBERGLASS BUILDING TO E-103 COMPOUND	-	EV	EV	TS
E-2	10	E-102 ELECTRICAL SCHEMATIC	STRUTTIAN	THE HE	3	3/12/14	REVISION TO SHEET 2 - GENERAL NOTES	EV	TS	EV	TS
E-3	11	ELECTRICAL TIE-IN DETAILS - VFD AND CONTROL BOX	TANGE	John Mary	2	3/3/14	ISSUED FOR BID	TCW	NB	EV	TS
E-4	12	480/120/24 VOLT POWER	XXXII)	"	1	2/12/14	100% SITE DESIGN	TCW	NB	EV	TS
F-5	13	PLC DISCRETE /ANALOG INPLITS	DATE: 3/12/20	014	0	12/16/13	DESIGN REVIEW	TCW	NB	EV	TS

(614) 508-1200 (Phone)

Los Alamos Technical Associates, Inc. 756 Park Meadow Road Westerville, OH 43081

PHOENIX-GOODYEAR AIRPORT GOODYEAR, ARIZONA E-103 WELL AND PIPELINE

TITLE SHEET

11124.005 G-1 COVER SHEET 12/16/13 12/16/13 12/16/13 G-1SHEET 1 OF 19

### CITY OF GOODYEAR GENERAL NOTES FOR WATER MAIN CONSTRUCTION

PROJECT WILL COMPLY WITH CITY OF GOODYEAR NOTES ONLY AS APPLICABLE TO THE WORK SET FORTH IN THIS PLAN SET.

- A. ALL GENERAL CONSTRUCTION NOTES SHALL APPLY.
- B. ALL CONSTRUCTION SHALL CONFORM TO THE CITY EDS&PM, CITY STANDARD DETAILS, AND CURRENT MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.
- C. CITY OF GOODYEAR INSPECTORS SHALL BE NOTIFIED 48—HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION, AND EACH INSPECTION REQUESTED (623—882—7979).
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND ELEVATION OF ANY UTILITY LINES BEFORE STARTING CONSTRUCTION. IF THE EXISTING LINE IS FOUND TO BE IN A SUBSTANTIALLY DIFFERENT LOCATION, OR WILL ADVERSELY AFFECT THE OPERATION OF THE UTILITY, THE CONTRACTOR SHALL NOTIFY THE CITY OF GOODYEAR PRIOR TO MAKING THE CONNECTIONS. AMENDMENTS TO THE PLANS MAY BE REQUIRED PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
- E. THE CITY OF GOODYEAR IS NOT LIABLE FOR DELAYS OR DAMAGES TO UTILITIES RELATED TO THIS CONSTRUCTION.
- F. AS-BUILT DRAWINGS (ONE SET OF PRINTS FOR EACH REVIEW AND A FINAL SET OF MYLARS), CERTIFIED BY THE DEVELOPER'S ENGINEER, SHALL BE SUBMITTED TO AND ACCEPTED BY THE CITY ENGINEER BEFORE FINAL ACCEPTANCE OF THE WORK. SEE AS-BUILT REQUIREMENTS.
- G. BACKFILLING SHALL NOT BE DONE UNTIL LINES ARE INSPECTED AND APPROVED BY THE CITY CONSTRUCTION INSPECTOR.
- H. MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ACCORDING TO THE CITY'S APPROVED MATERIALS LIST, EDS&PM CITY STANDARD DETAILS AND MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION. THE APPROVED MATERIALS LIST IS AVAILABLE ON THE CITY WEBSITE OR FROM THE CITY ENGINEERING
- I. ALL SERVICE LINES SHALL BE TYPE K COPPER PIPE OR TUBING. THE MINIMUM SIZE SERVICE SHALL BE ONE—INCH. SERVICE LINES SHALL BE CONTINUOUS UNDER PAVEMENT WITHOUT A CONNECTION OR EXTENSION.
- J. ALL TAPS SHALL USE ALL BRONZE DOUBLE STRAP SERVICE SADDLES.
- K. THE DEVELOPER IS TO INSTALL ALL TAPS AND METER BOXES. THE TAP SHALL TERMINATE WITH AN ANGLE METER VALVE WITHIN THE METER BOX PER CITY STANDARDS.
- L. METERS SHALL BE FURNISHED AND INSTALLED BY THE UTILITY AGENCY AFTER PAYMENT OF ALL PREVAILING FEES.
- M. METERS WILL ONLY BE INSTALLED IF:
- ALL BACTERIOLOGICAL TESTS AND A COUNTY APPROVAL OF CONSTRUCTION (AOC) LETTER HAVE BEEN RECEIVED.
- CURB AND GUTTER HAS BEEN CONSTRUCTED AND THE METER BOX IS INSTALLED TO THE SPECIFIED GRADE PER PLANS.
- 3. THE LOT NUMBER AND ADDRESS ARE CLEARLY POSTED.
- 4. THE METER BOX IS VISIBLE AND FREE OF OBSTRUCTION AND DAMAGE.
- 5. THE METER BOX AND LID ARE PER THE CITY APPROVED MATERIALS LIST.
- 6. THE METER BOX AND LID ARE THE CORRECT SIZE.
- 7. THE SERVICE LINES AND CONNECTIONS ARE FREE OF LEAKS.
- N. PAVEMENT REPLACEMENTS SHALL BE MADE PER THE CITY EDS&PM, CITY STANDARD DETAILS, AND MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.
- O. ALL WATER SERVICE CONNECTIONS SHALL BE EXTENDED A SUFFICIENT DISTANCE ACROSS THE RIGHT-OF-WAY TO CLEAR ALL FACILITIES TO BE INSTALLED IN PUBLIC UTILITY EASEMENTS PARALLELING STREET RIGHT-OF-WAY.
- P. TRACER WIRE SHALL BE INSTALLED ON ALL PRIVATE PVC WATER LINES LARGER THAN 6 INCHES.
- Q. ALL WATER LINES 12 INCHES AND LARGER AND RECLAIMED WATER LINES SHALL BE MARKED WITH LOCATING TAPE ONE FOOT ABOVE THE MAIN.
- R. ALL CHANGES IN DIRECTION OF WATER LINES 6 INCHES AND LARGER SHALL BE MARKED WITH AN ELECTRONIC MARKER. ELECTRONIC MARKER SHALL BE A SELF—LEVELING TYPE AND OPERATE ON A FREQUENCY OF 145.7 KHZ UP TO A DEPTH OF 4 FEET.
- S. PRIOR TO ISSUANCE OF WATER PERMITS, STREET SUBGRADE ELEVATIONS SHALL BE GRADED TO WITHIN 0.5 FEET OF THE APPROVED PAVING PLANS; OPEN SPACES, TRACTS, AND RIGHTS—OF—WAYS ELEVATIONS GRADED TO WITHIN 0.3 FEET OF APPROVED GRADING PLAN ELEVATIONS; AND PADS CERTIFIED TO BE AT OR +0.1 FEET ABOVE THE PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING PLANS.
- T. PRIVATE ON-SITE WATER AND SEWER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE CITY STANDARDS.
- U. ALL DUCTILE IRON WATER LINES LARGER THAN 12 INCHES IN DIAMETER SHALL BE ENCASED IN POLYETHYLENE WRAP PER MAG STANDARD AND MANUFACTURER SPECIFICATIONS.
- V. THE CONTRACTOR MUST REQUEST A METER FOR FILLING AND TESTING OF NEW WATER LINES FROM THEIR ASSIGNED CITY CONSTRUCTION INSPECTOR. THIS METER SHOULD BE ORDERED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

# CITY OF GOODYEAR GENERAL NOTES FOR CONSTRUCTION

- A. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- "B: ALL-CONSTRUCTION SHALL-CONFORM-TO-THE-CITY EDS± CITY-STANDARD DETAILS, AND CURRENT MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.
- C. THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH THE CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN PLANS FOUND IN TO BE IN VIOLATION OF ANY LAW OR ORDINANCE.
- D. THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
- E. THE CITY APPROVAL IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY ONLY. THIS APPROVAL IS VALID FOR A PERIOD OF ONE YEAR. CONSTRUCTION PERMITS SHALL BE OBTAINED DURING THIS PERIOD OR THE PLANS SHALL BE RESUBMITTED FOR REVIEW AND APPROVAL.
- F. AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- G. THE CITY SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK AND INSPECTIONS (623-882-7979). CONSTRUCTION WORK CONCEALED WITHOUT INSPECTION BY THE CITY CONSTRUCTION INSPECTOR SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- H. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER, OR DESIGNEE, AND ANY WORK/MATERIAL NOT IN CONFORMANCE WITH CITY ENGINEERING STANDARDS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- I. RIGHT-OF-WAY IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND APPROVED BY THE CITY. (SEE AS-BUILT REQUIREMENTS).
- J. THE DEVELOPER IS RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY PRIOR TO STARTING NEW CONSTRUCTION.
- K. THE DEVELOPER IS RESPONSIBLE FOR ARRANGING THE RELOCATION AND ASSOCIATED COSTS OF ALL UTILITIES. A UTILITY RELOCATION SCHEDULE SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF PERMITS.
- L. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING OR DEDICATING ALL REQUIRED RIGHTS—OF—WAY AND EASEMENTS TO THE CITY PRIOR TO ISSUANCE OF PERMITS.
- M. THE CONTRACTOR SHALL CONTACT BLUE STAKE (602-263-1100) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL LOCATE ALL CONFLICTS PRIOR TO CONSTRUCTION.
- N. THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL. IF NEEDED, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL IN ADVANCE OF CONSTRUCTION.
- O. POTABLE WATER IS NOT AVAILABLE FOR CONSTRUCTION USE OTHER THAN THE FILLING AND TESTING OF NEW LINES. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT OR ANY OTHER SOURCE IS A VIOLATION OF THE MUNICIPAL CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT.
- P. PRIOR TO MOVING OR DESTROYING PROTECTED NATIVE PLANT SPECIES, THE CONTRACTOR SHALL FILE A FORMAL NOTICE OF INTENT WITH THE ARIZONA DEPARTMENT OF AGRICULTURE (602-542-6408).
- Q. THE CONTRACTOR SHALL COMPLY WITH THE ENVIRONMENTAL PROTECTION AGENCY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER REQUIREMENTS ESTABLISHED FOR CONSTRUCTION SITES, ADEQ GENERAL PERMIT FOR DISCHARGE FROM CONSTRUCTION ACTIVITIES, AND THE CITY OF GOODYEAR STORM WATER MANAGEMENT PLAN.
- R. NO PERSON SHALL USE ANY MECHANICAL EQUIPMENT FOR LAND LEVELING OR CLEARING, ROAD CONSTRUCTION, TRENCHING, EXCAVATING, DEMOLITION, NOR ENGAGE IN ANY EARTHMOVING ACTIVITY WITHOUT FIRST OBTAINING A PERMIT FROM THE MARICOPA COUNTY AIR QUALITY DEPARTMENT (602-506-0666), 1001 N. CENTRAL AVENUE, SUITE 150, PHOENIX, AZ 85003. (THIS NOTICE IS ISSUED PURSUANT TO A.R.S. 36-779.07, NOTICE OF BUILDING AGENCIES.
- S. THESE PLANS REFLECT CONDITIONS AS THEY EXIST AT THE TIME OF DESIGN. IF EXISTING CONDITIONS HAVE CHANGED BY THE TIME OF CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE CITY AND THESE PLANS MAY HAVE TO BE AMENDED PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.

# PROJECT SPECIFIC NOTES

- A. IN ADDITION TO NOTES B, H, AND T OF CITY OF GOODYEAR GENERAL NOTES FOR WATER MAIN CONSTRUCTION, AND NOTE B OF THE CITY OF GOODYEAR GENERAL NOTES FOR CONSTRUCTION ALL CONSTRUCTION SHALL CONFORM WITH THIS PLAN SET. IN THE EVENT THAT THERE IS A CONFLICT, THIS PLAN SET TAKES PRECEDENCE.
- B. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL OBSTRUCTIONS WITH THE RIGHT-OF-WAY PRIOR TO STARTING CONSTRUCTION.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING AND OPERATING WITHIN THE GUIDELINES SET FORTH BY OSHA, THE USEPA, AND ANY OTHER REGULATORY AGENCY OR POLITICAL ENTITY HAVING JURISDICTION OVER THE PROJECT.
- D. THE CONTRACTOR SHALL CONDUCT THE WORK ACTIVITY IN SUCH MANNER AS TO MINIMIZE THE RELEASE OF ANY EXISTING MATERIALS (WASTE OR OTHERWISE) TO THE ENVIRONMENT.

## PROJECT SPECIFIC NOTES (CONTINUED):

- E. THE CONTRACTOR IS REQUIRED TO SUPPLY AND INSTALL ANY EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED BY LAW OR AS DIRECTED BY THE PROJECT OWNER.
- F. THE CONTRACTOR SHALL COMPLY WITH BASIC PROVISIONS OF OSHA HEALTH AND SAFETY STANDARDS 29 CFR 1910 AND GENERAL CONSTRUCTION STANDARDS (29 CFR 1926) AS APPROPRIATE TO THIS CONSTRUCTION.
- G. AREAS DENOTED ON THE PLAN SET AS "WORK BY OTHERS" ARE NOT INCLUDED IN THIS SCOPE OF WORK.
- H. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESEARCH, APPLY FOR, PAY FOR, OBTAIN, ARRANGE INSPECTIONS, AND FULFILL ALL REQUIRED PERMITS TO COMPLETE THE WORK.
- I. THE OWNER'S ON-SITE ENGINEER SHALL INSPECT AND APPROVE ALL PIPE BEFORE BACKFILLING.
- J. THE CONTRACTOR SHALL CONTACT BLUE STAKE (602) 263-1100 AT LEAST 48 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL LOCATE ALL CONFLICTS PRIOR TO CONSTRUCTION.
- K. THE CONTRACTOR SHALL COMPLY WITH THE ENVIRONMENTAL PROTECTION AGENCY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER REQUIREMENTS ESTABLISHED FOR CONSTRUCTION SITES, ADDEQ GENERAL PERMIT FOR DISCHARGE FROM CONSTRUCTION ACTIVITIES, AND THE CITY OF GOODYEAR STORM WATER MANAGEMENT PLAN.
- L. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE MARICOPA COUNTY AIR QUALITY DEPARTMENT AIR POLLUTION CONTROL REGULATIONS INCLUDING RULE 310 FUGITIVE DUST FROM DUST-GENERATING OPERATIONS
- M. THE CONTRACTOR SHALL CONDUCT ALL WORK ACTIVITIES WITHIN THE BOUNDS OF THE CONSTRUCTION EASEMENT.

### N. HDPE PIPE SPECIFICATION:

- MATERIAL: PE3408/3608 RESIN CONFORMING TO ASTM D 3350 AND CELL CLASSIFICATION OF 345464C AND IS LISTED WITH THE PLASTIC PIPE INSTITUTE.
- 2. TEMPERATURE RATING: 140°F.
- 3. DIMENSION RATIO (DR): 11 (DIPS) WITH A PRESSURE RATING OF 160 PSI.
- 4. FITTINGS: SAME PRESSURE RATING, RESIN TYPE, AND CELL CLASSIFICATION AS ADJOINING PIPE. MOLDED FITTINGS SHALL BE IN ACCORDANCE WITH ASTM D2683, ASTM D3261 FOR BUTT-TYPE FITTINGS, OR ASTM F1055 FOR ELECTROFUSION-TYPE FITTINGS.
- 5. JOINTS: BUTT FUSION IN ACCORDANCE WITH ASTM F 2620.
- 6. MANUFACTURERS: DRISCOPIPE, AS MANUFACTURED BY PHILLIPS, JM EAGLE, OR APPROVED EQUAL.
- O. TRACER WIRE IS REQUIRED FOR ALL UNDERGROUND UTILITIES. TRACER WIRE SHALL BE #12 POLYETHYLENE JACKETED, 45-MIL SOLID COPPER. TRACER WIRE SHALL BE TERMINATED TO THE SURFACE IN "SOUNDING" BOXES PLACED AS LOCATED ON THE DRAWINGS. THE CONTRACTOR SHALL ENSURE THE INTEGRITY OF ALL TRACER WIRE.
- P. UNDERGROUND WARNING TAPE SHALL BE INSTALLED IN TRENCHES FOR ALL OPEN—CUT BURIED PIPING. TAPE SHALL BE 5 MILS THICK, 6 INCHES WIDE WITH ALUMINUM BACKING, AND SUITABLE FOR DIRECT BURIAL. TAPE SHALL READ "CAUTION PIPE BURIED BELOW" OR SIMILAR.

## Q. HYDROSTATIC TEST SPECIFICATIONS:

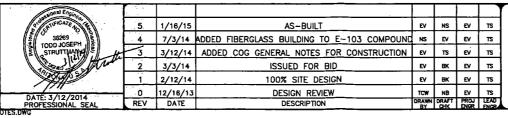
- 1. THE CONTRACTOR SHALL PROVIDE ALL WATER, VENTS, PIPING, PLUGS, TAPS, BULKHEADS, VALVES, BRACING, BLOCKING, PUMPS, MEASURING DEVICES, AND ALL OTHER NECESSARY EQUIPMENT FOR COMPLETION OF A HYDROSTATIC TEST OF ALL INSTALLED PIPING IN ACCORDANCE WITH ANSI/AWWA C600. NO TESTING SHALL BE PERFORMED AGAINST CLOSED VALVES. TESTING SHALL NOT BE PERFORMED "OUT OF TRENCH".
- THE TEST SETUP AND TEST PARAMETERS SHALL BE SUBMITTED TO THE ENGINEER AT LEAST 24
  HOURS PRIOR TO ACTUAL TESTING. THE ENGINEER SHALL PROVIDE NOTIFICATION TO PROCEED WITH
  TESTING BASED ON THE CONTRACTOR'S SUBMITTAL. THE TEST SHALL ONLY BE CONDUCTED WITH THE
  ENGINEER PRESENT.
- 3. THE HYDROSTATIC PRESSURE TESTING SHALL CONSIST OF PURGING THE LINE OF AIR AS IT IS FILLING COMPLETELY WITH POTABLE WATER. THE WATER, PIPE, AND SOIL TEMPERATURE SHALL BE ALLOWED TO EQUILIBRATE AND STABILIZE (24 HOURS AT SLIGHT PRESSURE). THE PIPE AND WATER SHALL THEN BE PRESSURIZED TO A MINIMUM OF 1.5 TIMES THE WORKING PRESSURE OF THE PIPE (130 PSI) AND HELD AT THAT PRESSURE FOR AT LEAST 2 CONTINUOUS HOURS WITHOUT LOSING MORE THAN 5 PSI OR THE ALLOWABLE MAKEUP WATER (0.6 GALLONS PER 100' OF PIPE).
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL DISPOSITION OF ALL MAKEUP WATER.
- 5. THE TEST PRESSURE CANNOT VARY BY MORE THAN ±5 PSI FROM THE REQUIRED PRESSURE FOR THE DURATION OF THE TEST. IF AT ANY POINT DURING THE TEST THE PRESSURE LOSS EXCEEDS 5 PSI, THE TEST IS A FAILURE. MAKEUP WATER IN EXCESS OF THE CALCULATED VOLUME (SEE NOTE 4) CONSTITUTES A FAILED TEST.
- 6. THE CONTRACTOR SHALL REPAIR AND RE-TEST ANY PORTION OF THE PIPELINE THAT DOES NOT MEET THE TEST REQUIREMENTS AT NO ADDITIONAL COST.
- 7. THE CONTRACTOR SHALL PROVIDE DETAILED WRITTEN RECORDS OF THE TEST INCLUDING, BUT NOT LIMITED TO, A SKETCH OF THE SETUP, RECORDING OF PRESSURES, FILL AND MAKEUP WATER, RATE OF FILLING, AND TEST DURATION.

PHOENIX-GOODYEAR AIRPORT

GOODYEAR, ARIZONA

E-103 WELL AND PIPELINE

- R. HDPE CONDUIT SHALL BE USED FOR HORIZONTAL RUNS OF UNDERGROUND CONDUIT FOR COMMUNICATION AND ELECTRIC LINES. THE CONDUIT SHALL BE SPECIFICALLY LISTED AS AN ELECTRICAL CONDUIT AND SUITABLE FOR DIRECT BURY. PULL TAPE OR ROPE SHALL BE INSTALLED IN ALL CONDUIT RUNS.
- S. CONDUIT ELBOWS AND TURN-UPS SHALL BE RGS. CONDUIT ELBOWS SHALL BE LONG SWEEP.





756 Park Meadow Road

Westerville, OH 43081

(614) 508-1200 (Phone) www.lata.com
Los Alamos Technical Associates, Inc.

GENERAL NOTES

P:\GOODYEAR\PGA\5110 PGA\E-103 PIPELINE DESIGN\DRAFTING -- GIS\CADD\02-GENERAL\G-2 GENERAL NOTES.DWG

# GENERAL ABBREVIATIONS

ABC	AGGREGATE BASE COURSE	INJ.	INJECTION
A.C.	ASPHALT CONCRETE	1/0	INPUT/OUTPUT
AC	ALTERNATING CURRENT	LBS	POUNDS
APPROX	APPROXIMATELY	LIT	LEVEL INDICATING TRANSMITTER
APS	ARIZONA PUBLIC SERVICE	MA	MILLIAMPS
AWG	AMERICAN WIRE GAUGE	MAG	MARICOPA ASSOCIATION OF
BV	BUTTERFLY VALVE		GOVERNMENTS
CFR	CODE OF FEDERAL REGULATIONS	MJ	MECHANICAL JOINT
CLSM	CONTROLLED LOW STRENGTH MATERIAL	NPDES	NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM
COG	CITY OF GOODYEAR	NTS	NOT TO SCALE
CONC.	CONCRETE	O.D.	OUTER DIAMETER
C.S.	CARBON STEEL	OSHA	OCCUPATIONAL SAFETY AND
CV	CHECK VALVE	DI O	HEALTH ADMINISTRATION
DEG	DEGREES	PLC	PROGRAMMABLE LOGIC CONTROLLER
DC	DIRECT CURRENT	PSI	POUNDS PER SQUARE INCH
DI	DUCTILE IRON	PSV	PRESSURE SUSTAINING VALVE
DIPS	DUCTILE IRON PIPE SIZE	PVC	POLYVINYL CHLORIDE
DISC.	DISCONNECT	RED.	REDUCING
DR	DIMENSION RATIO	RGS	RIGID GALVANIZED STEEL
DWG	DRAWING	SCH	SCHEDULE
EDS&PM	ENGINEERING DESIGN STANDARDS &	SDR	STANDARD DIMENSION RATIO
	POLICIES MANUAL	SQ	SQUARE
ELEV	ELEVATION	STA	STATION
EOP	EDGE OF PAVEMENT	TYP	TYPICAL
FIT	FLOW INDICATING TRANSMITTER	THWN	THERMOPLASTIC HEAT AND WATER RESISTANT NYLON—COATED
FLG	FLANGED	TWSP	TWISTED WIRE SHIELDED PAIR
FLJ	FLANGE JOINT	USEPA	UNITED STATES ENVIRONMENTAL
FMC	FLEXIBLE METAL CONDUIT	OSLI A	PROTECTION AGENCY
FT	FEET	UV	ULTRAVIOLET
GAC	GRANULAR ACTIVATED CARBON	٧	VOLT
GND	GROUND	VFD	VARIABLE FREQUENCY DRIVE
GTRC	THE GOODYEAR TIRE & RUBBER COMPANY	w	WATTS
GV	GATE VALVE	XFMR	TRANSFORMER

HDPE

ΗZ

HIGH-DENSITY POLYETHYLENE

HERTZ

# DRAWING INDENTIFICATION SYSTEM

IDENTIFYING LETTER FOR GROUP OF DRAWINGS GROUP OF DRAWINGS WITHIN GROUP

# IDENTIFYING LETTERS FOR GROUP OF DRAWINGS

C - CIVIL

E - ELECTRICAL

G - GENERAL

# SECTION AND DETAIL IDENTIFICATION SYSTEM

DETAIL NUMBER -

102

OVERALL SHEET NUMBER — ON WHICH THE DETAIL IS REFERRED TO FIRST

OVERALL SHEET NUMBER
ON WHICH THE DETAIL IS
SHOWN

SECTION CUT

ABER S

OVERALL SHEET NUMBER —
ON WHICH THE SECTION
CUT IS REFERRED TO

OVERALL SHEET NUMBER ON WHICH THE SECTION DETAIL IS SHOWN

# GENERAL SYMBOLS

PROPERTY OR LEASE BOUNDARY

CE - CONSTRUCTION EASEMENT

-- ME - MAINTENANCE EASEMENT

TOPOGRAPHIC CONTOUR

**(W)** 

EXTRACTION WELL



CONCRETE



UNDISTURBED EARTH



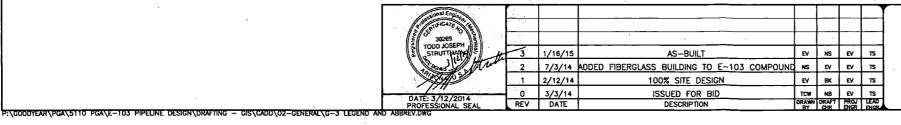
RIP-RAP/GRAVEL
PIPE FOUNDATION



PIPE BEDDING



BACKFILL



CROSS-LINKED POLYETHYLENE HIGH HEAT RESISTANT INSULATED WIQS RE

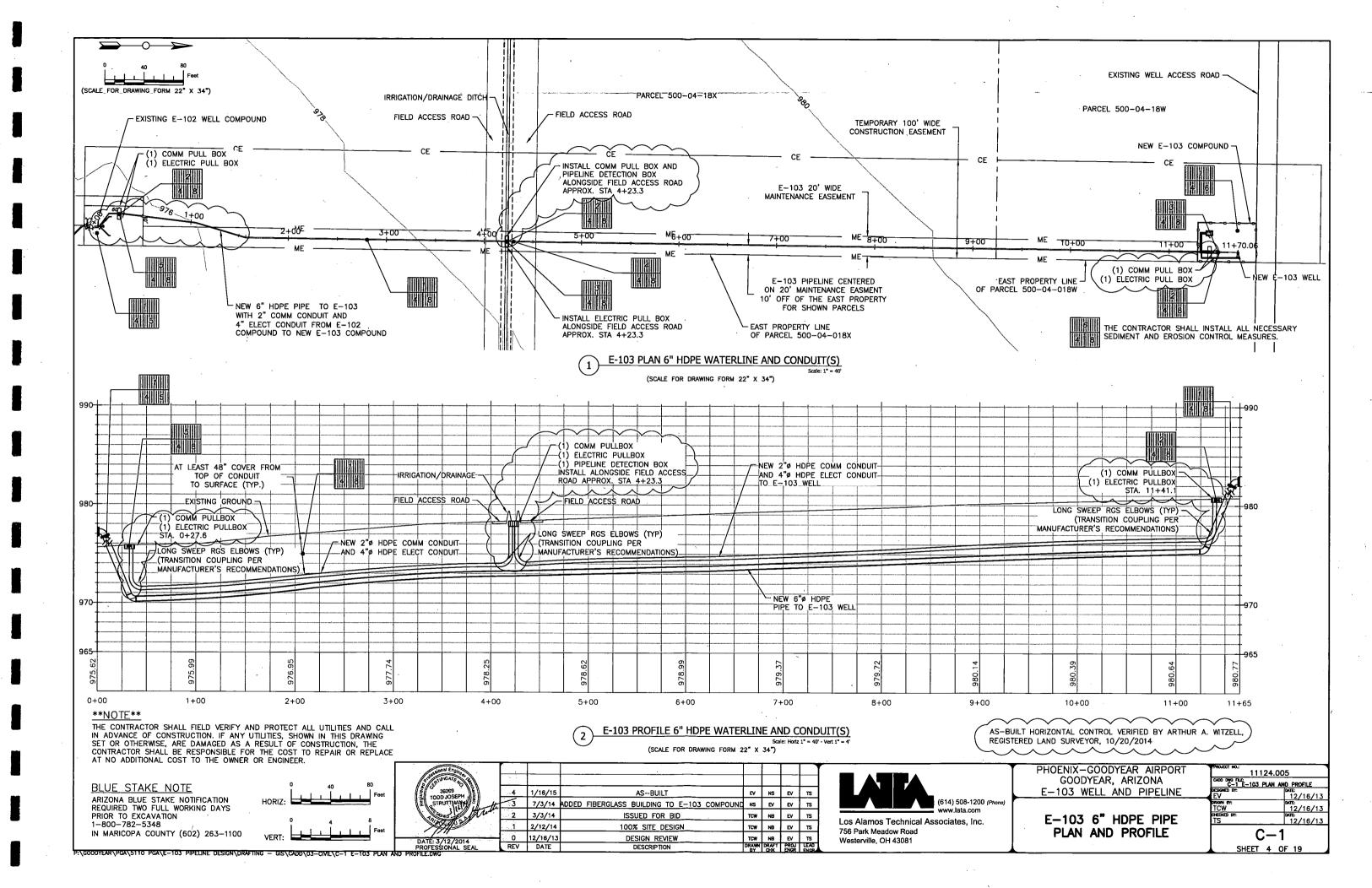


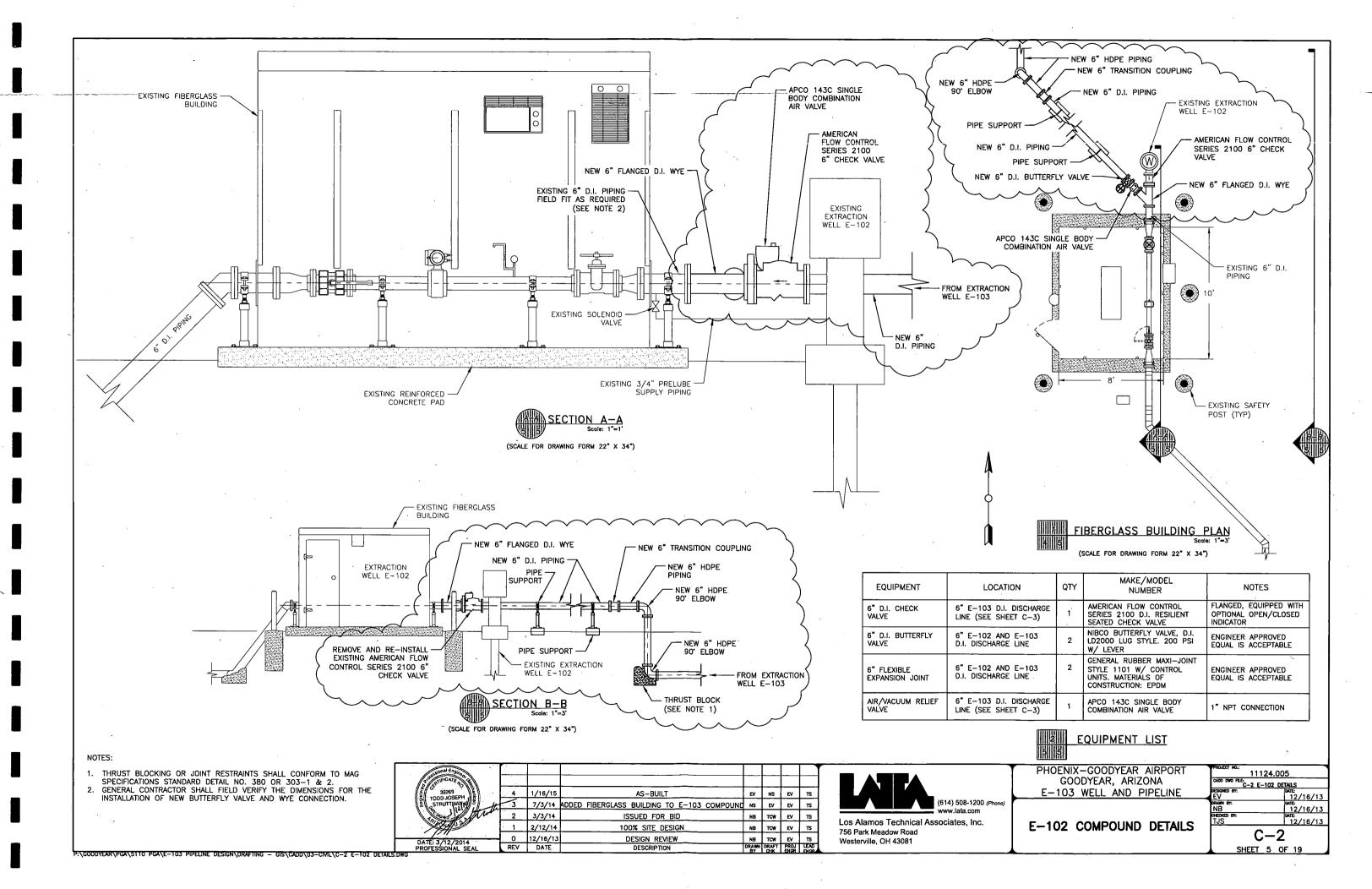
Los Alamos Technical Associates, Inc. 756 Park Meadow Road Westerville, OH 43081 PHOENIX-GOODYEAR AIRPORT GOODYEAR, ARIZONA E-103 WELL AND PIPELINE

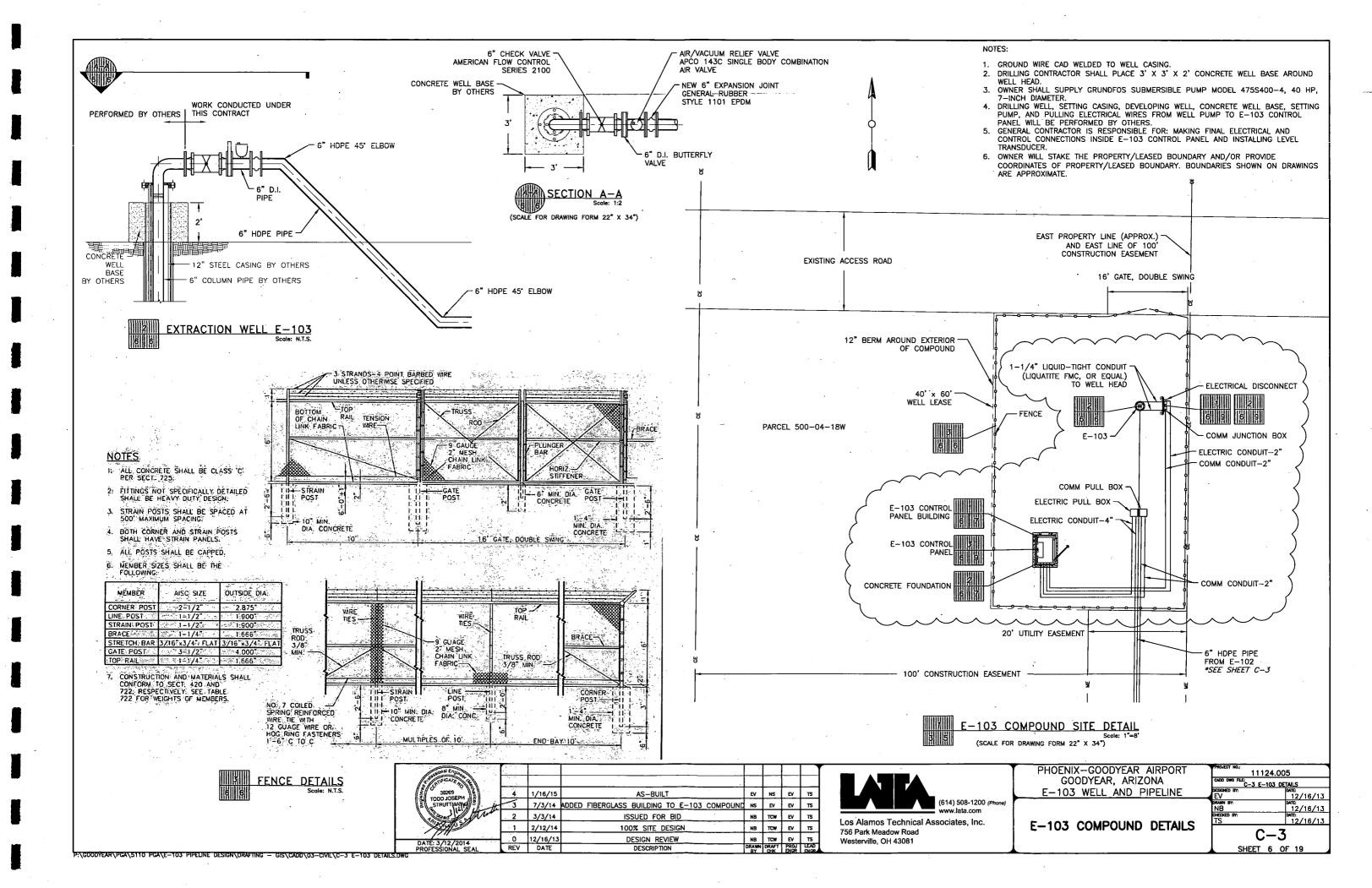
LEGEND AND ABBREVIATIONS

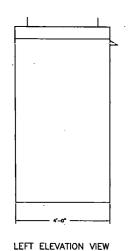
PROJECT NO:	<del></del>					
11124.005						
CADO DWO FILE: G-3 LEGENI	D AND ABBREV					
DESIGNED BY:	DATE: 12/16/13					
DRAWN BY: TCW	DATE: 12/16/13					
CHECKED BY: TS	DATE: 12/16/13					
G-3						

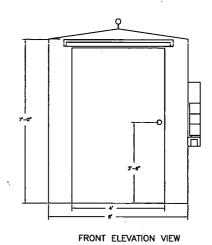
SHEET 3 OF 19

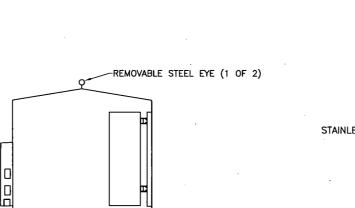


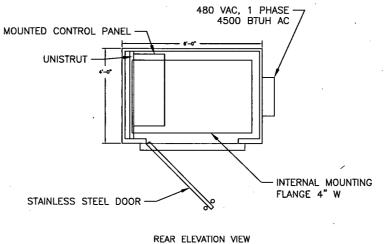


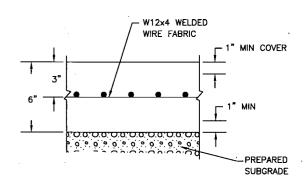


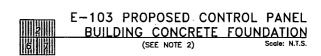


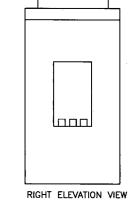










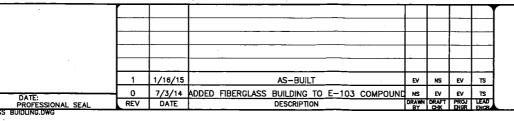




REAR ELEVATION VIEW

## NOTE

- 1. Building shall be WEECI one—piece fiberglass building, 6'-0" W X 4'-0" D X 7'-6" H, manufactured by TRACOM, Inc., 6575 Industrial Way, Alpharetta, GA 30004 (www.tracomfrp.com). Options shall include Gray Cloud gel coat with U.V. inhibitors; 4500 BtuH air conditioner (480 VAC, 1 phase); sing door assembly 48"Wx78"H; 1" isocyanurate foam core (R7); T equipment mounting panel on back wall; 10"x10" FRP gravity shutter with SS insect screen; Manufacturer's drawings and specifications shall be provided to Haley & Aldrich, Inc for approval before the building can be installed.
- 2. Concrete shall be per MAG SPECIFACTIONS 505, 725, & 726. Subgrade shall be prepared per MAG SPECIFICATION 301.
- 3. Safety posts shall be constructed to conform to MAG Specs Standard Detail No. 140. The above grade portion of the posts shall be primed and painted safety yellow.





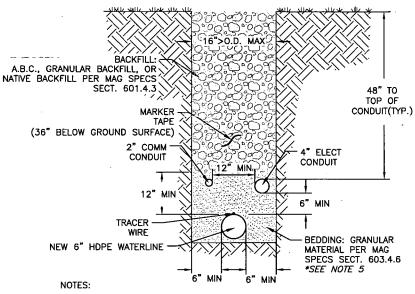
Los Alamos Technical Associates, Inc. 756 Park Meadow Road Westerville, OH 43081 PHOENIX-GOODYEAR AIRPORT GOODYEAR, ARIZONA E-103 WELL AND PIPELINE

E-103 COMPOUND CONTROL PANEL BUILDING

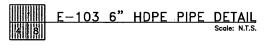
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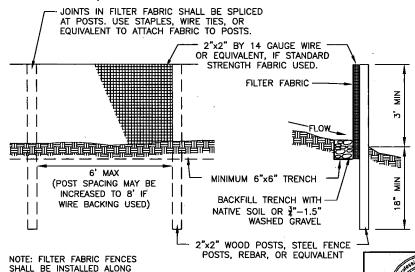
11124.005

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- I. TRENCH BACKFILL AND BEDDING SHALL BE COMPACTED BY MECHANICAL MEANS ONLY. BACKFILL AND BEDDING SHALL BE PLACED IN LIFTS THE HEIGHT OF WHICH SHALL NOT EXCEED THAT WHICH CAN BE EFFECTIVELY COMPACTED DEPENDING ON THE TYPE OF MATERIAL, AND TYPE OF EQUIPMENT AND METHODS USED. THE FIRST LIFT SHALL BE 8 INCHES OR TWO—THIRDS OF THE DISTANCE TO THE SPRINGLINE WHICHEVER IS GREATER. SUCCEEDING LIFTS SHALL NOT EXCEED 1 FOOT LOOSE AND EXTREME CARE WILL BE TAKEN TO PREVENT DAMAGE TO OR MOVEMENT OF THE CONDUIT BY THE COMPACTION EQUIPMENT. THE MOISTURE CONTENT SHALL BE SUCH THAT THE SPECIFIED COMPACTION CAN BE OBTAINED.
- 2. MINIMUM TRENCH COMPACTION DENSITIES SHALL COMPLY WITH MAG SPECS SECT. 601.4.4 TABLE 601-2, TYPE II BACKFILL.
- 3. MAINTAIN A MINIMUM OF 12 INCHES OF SEPARATION FROM THE O.D. OF THE ELECTRICAL AND COMMUNICATION CONDUITS
- MAINTAIN A MINIMUM OF 6 INCHES OF VERTICAL CLEARANCE BETWEEN THE WATERLINE AND CONDUITS.
- BEDDING AND FOUNDATION TO MEET OR EXCEED HDPE MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR TO PROVIDE OPTIONAL INCREMENTAL PRICING FOR 1/2 SACK CLSM FROM 30 TO 48 INCHES BELOW GROUND SURFACE.

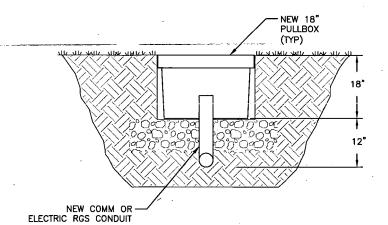




<u>T FENCE DETAIL</u>

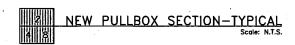
P:\GOODYEAR\PGA\5110 PGA\E-103 PIPELINE DESIGN\DRAFTING - GIS\CADD\03-CIVIL\C-5 E-103 PIPE

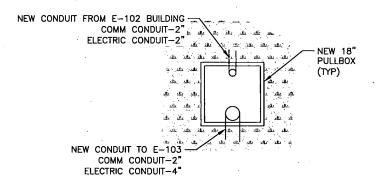
CONTOUR WHENEVER POSSIBLE.



#### INSTALLATION NOTES:

- PULLBOXES SHALL BE QUAZITE PG1324BA18 BOX AND PG1324CA0009 COVER OR EQUAL.
- 2. TURN-UPS INTO PULLBOXES SHALL BE LONG SWEEP RGS ELBOWS.

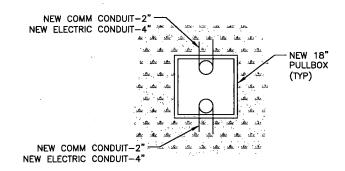




#### **INSTALLATION NOTES:**

- RUN 2" COMMUNICATION CONDUIT AND 2" ELECTRICAL CONDUIT FROM EXISTING E-102 COMPOUND TO (2) NEW PULLBOXES ([1] COMM PULLBOX; [1] ELECTRIC PULLBOX).
- MATE WITH 2" COMMUNICATION CONDUIT AND 4" ELECTRICAL CONDUIT TO NEW E-103 COMPOUND
- SUPPLY AND PULL TWO (2) EACH BELDEN #9842
  CABLE OR ENGINEER APPROVED EQUAL, LEAVING
  6' OF COILED WIRE IN THE BOX.





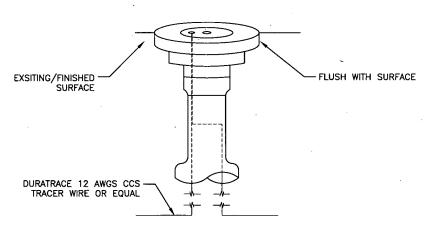
#### **INSTALLATION NOTES:**

- STA. 4+35: RUN 2" COMMUNICATION CONDUIT AND 4" ELECTRICAL CONDUIT FROM NEW E-102 COMPOUND PULLBOXES TO (2) NEW PULLBOXES AT STA. 4+35 ([1] COMM PULLBOX; [1] ELECTRIC PULLBOX).
- E-103 COMPOUND: RUN 2" COMMUNICATION CONDUIT AND 4" ELECTRICAL CONDUIT FROM STA. 4+35 PULLBOXES TO (2) NEW PULLBOXES AT E-103 COMPOUND ([1] COMM PULLBOX; [1] ELECTRIC PULLBOX).
- MATE WITH 2" COMMUNICATION CONDUIT AND 4" ELECTRICAL CONDUIT TO NEW E-103 COMPOUND
- PULL TWO (2) EACH BELDEN #9842 CABLE OR ENGINEER APPROVED EQUAL, LEAVING 6' OF COILED WIRE IN THE BOX



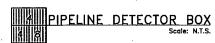
NEW PULLBOXES AT STA ~4+35

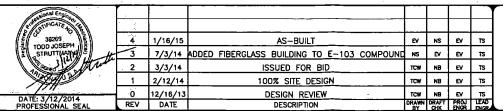
AND E-103 COMPOUND
Segle: NTS



#### INSTALLATION NOTES:

- DETECTOR BOX LOCATED IN SAME VICINITY AS NEW PULLBOX AT STA 4+50
- 2. SNAKEPIT MODEL CD14\*TP OR ENGINEER APPROVED EQUAL
- 3. DURATRACE 12 AWG CCS TRACER WIRE TO FOLLOW PIPING



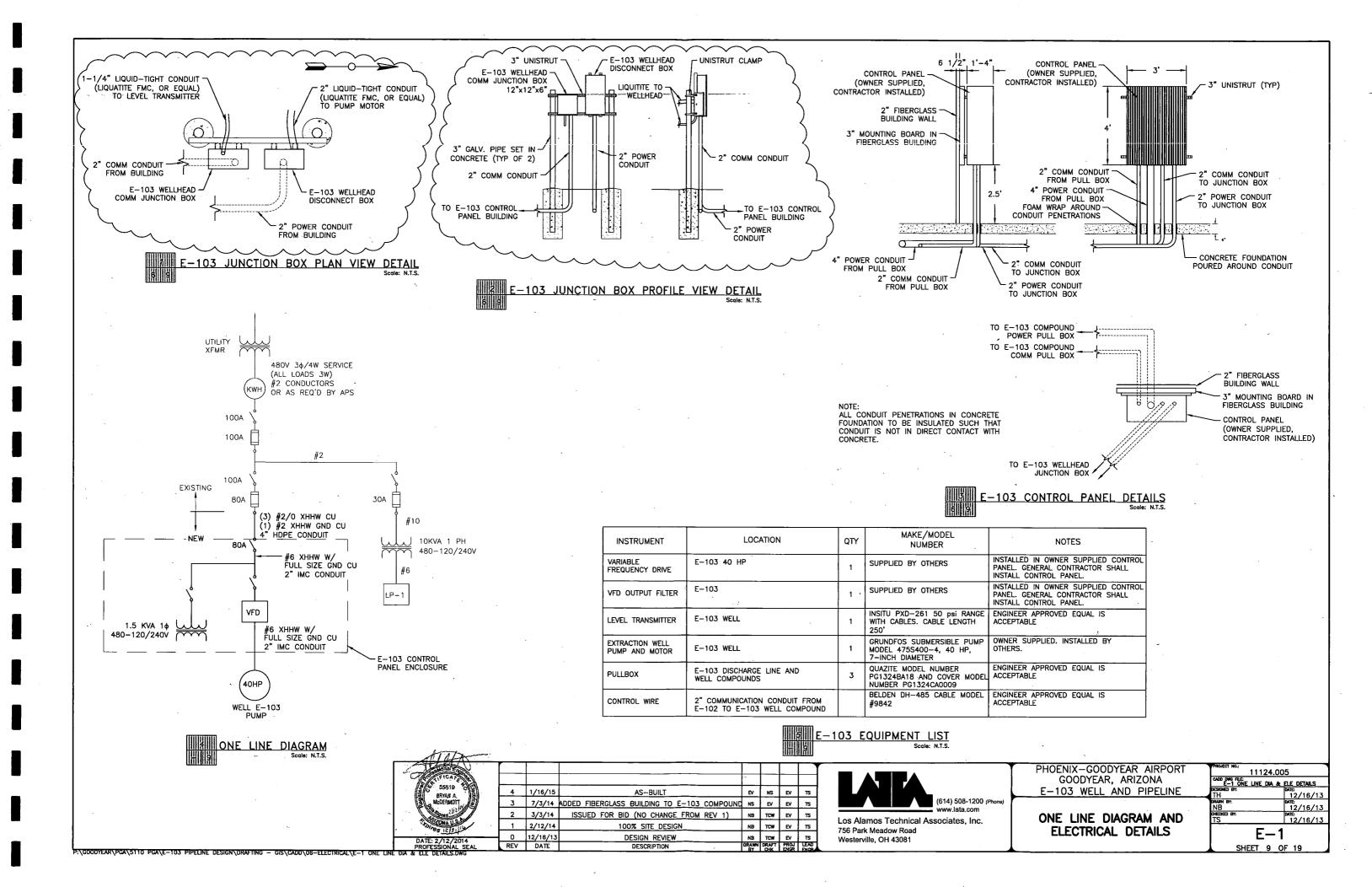


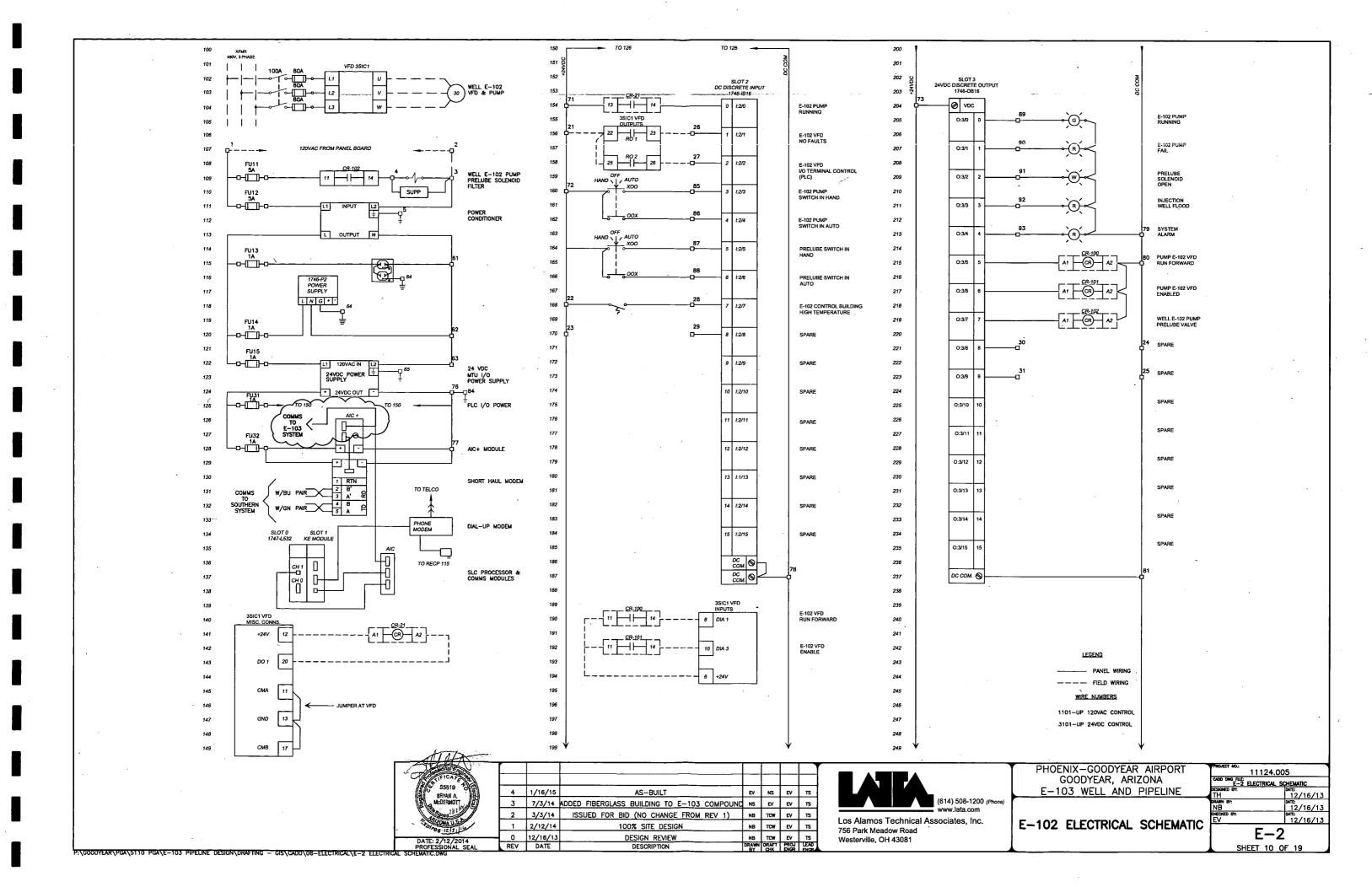


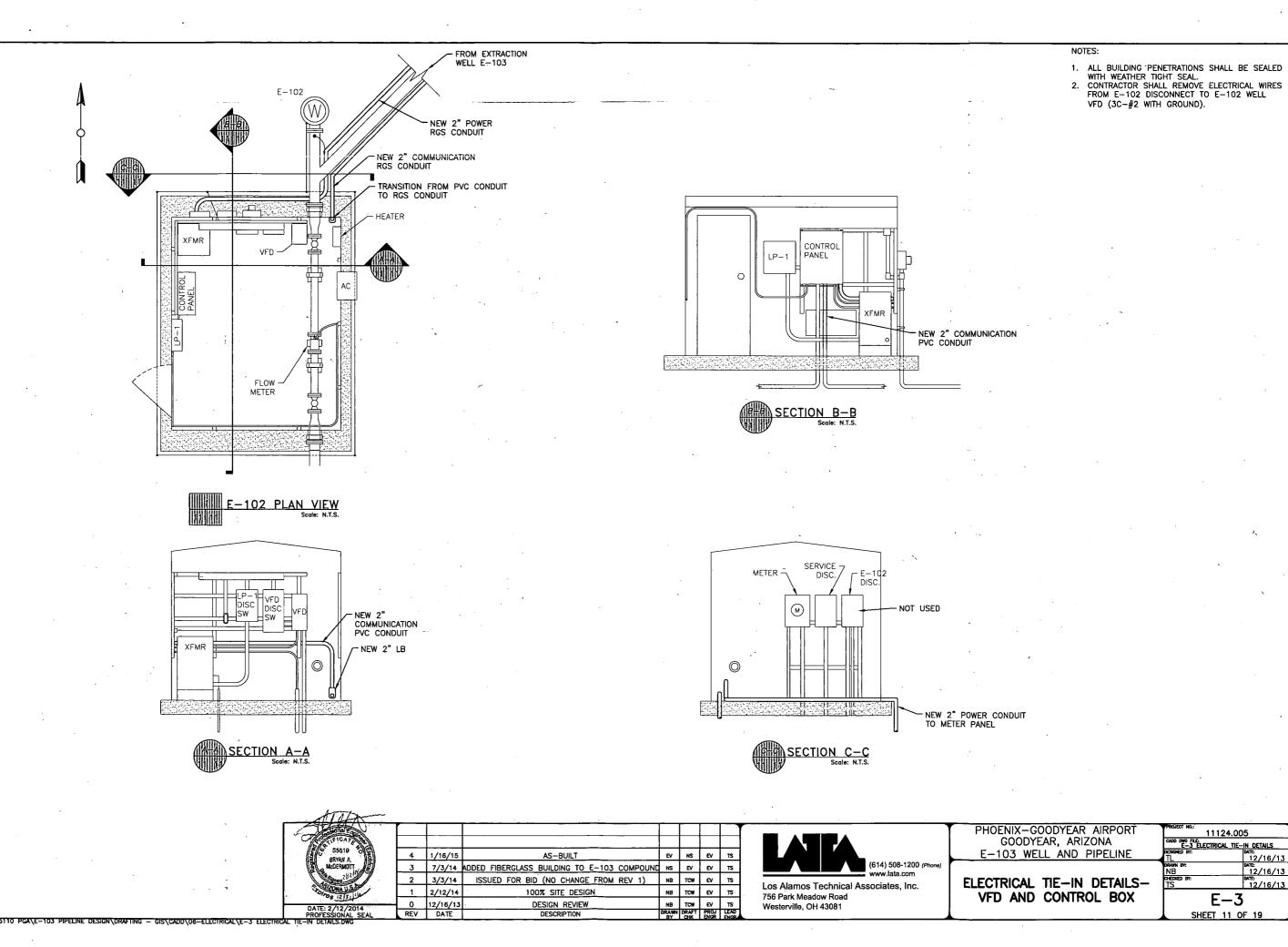
Los Alamos Technical Associates, Inc. 756 Park Meadow Road Westerville, OH 43081 PHOENIX-GOODYEAR AIRPORT GOODYEAR, ARIZONA E-103 WELL AND PIPELINE

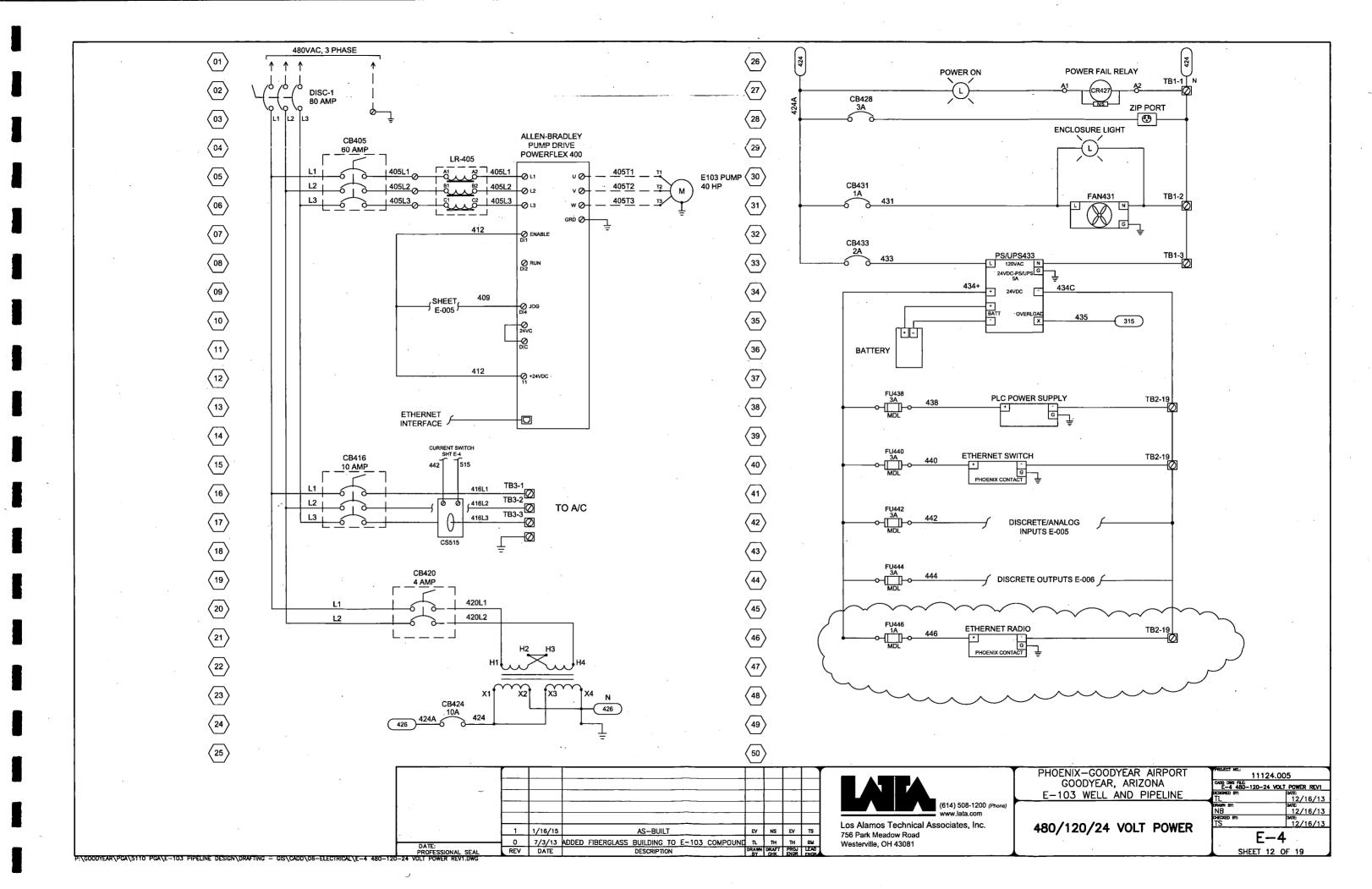
E-103 PIPE AND CONDUIT DETAILS

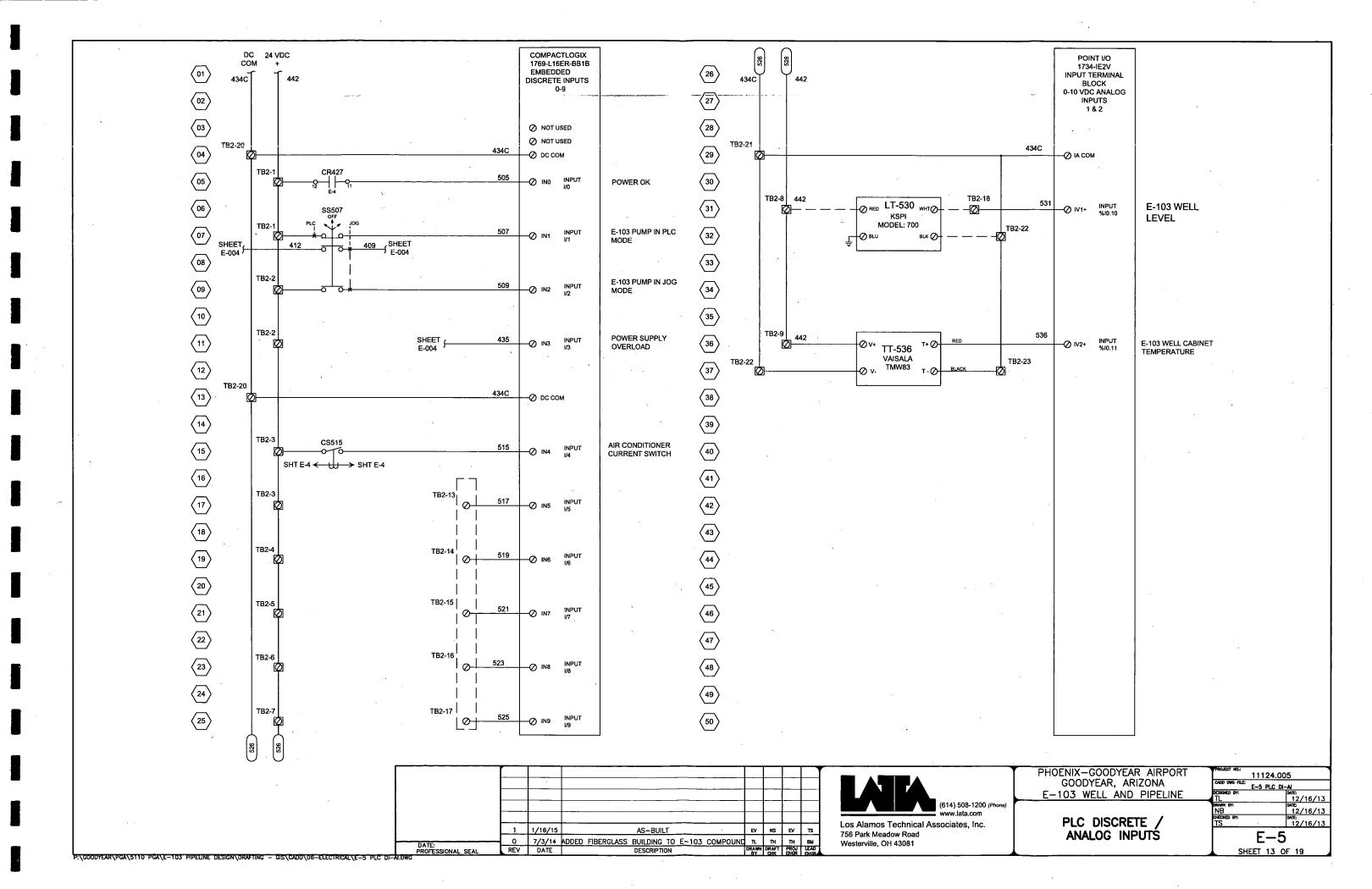
| FROJECT NO. | 11124.005 | | CARD DING FILE | C - 5 E - 103 PIPE AND CONDUIT DETAILS DESCRIPED BY | 12/16/13 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5 | C - 5

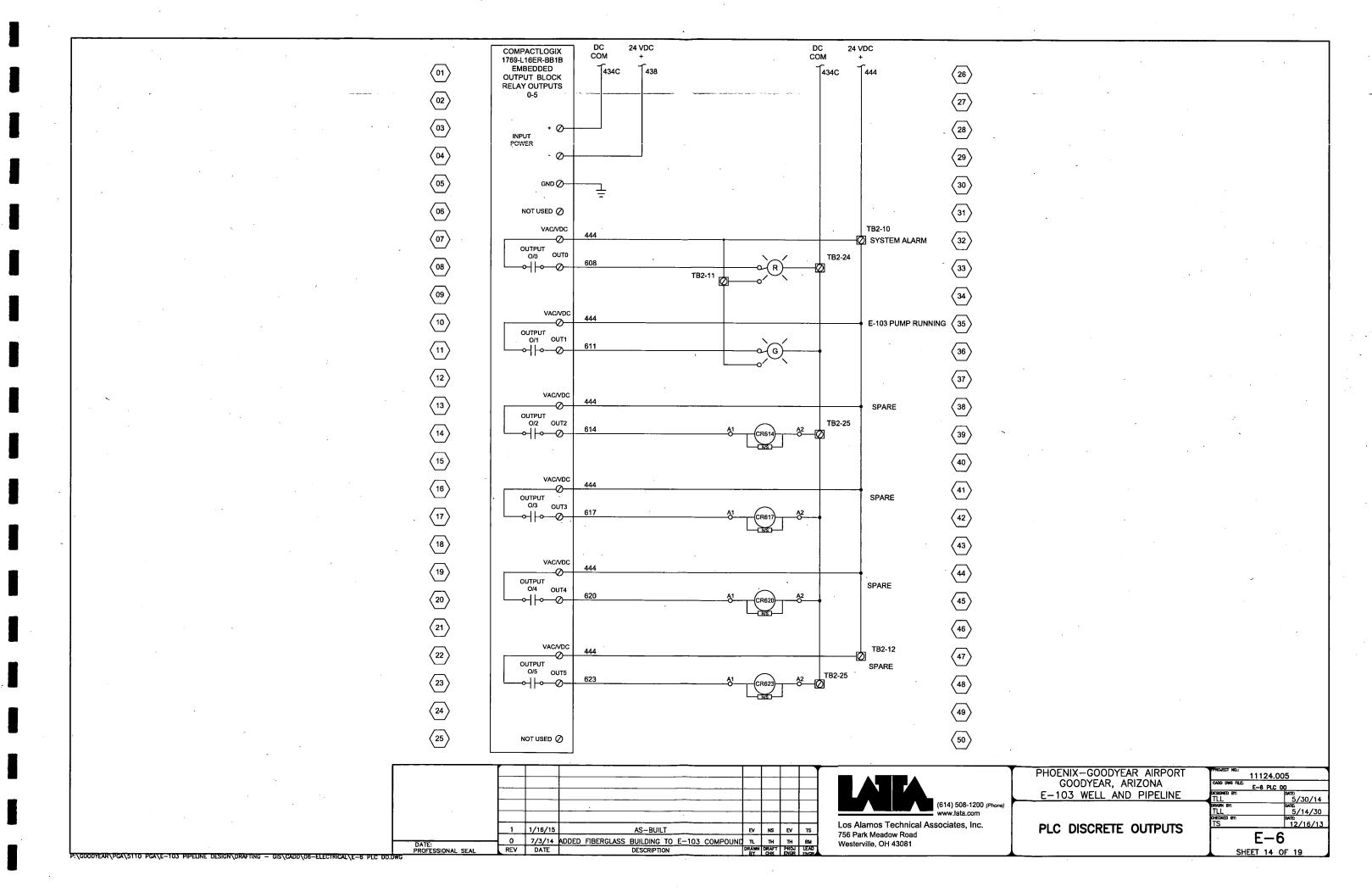


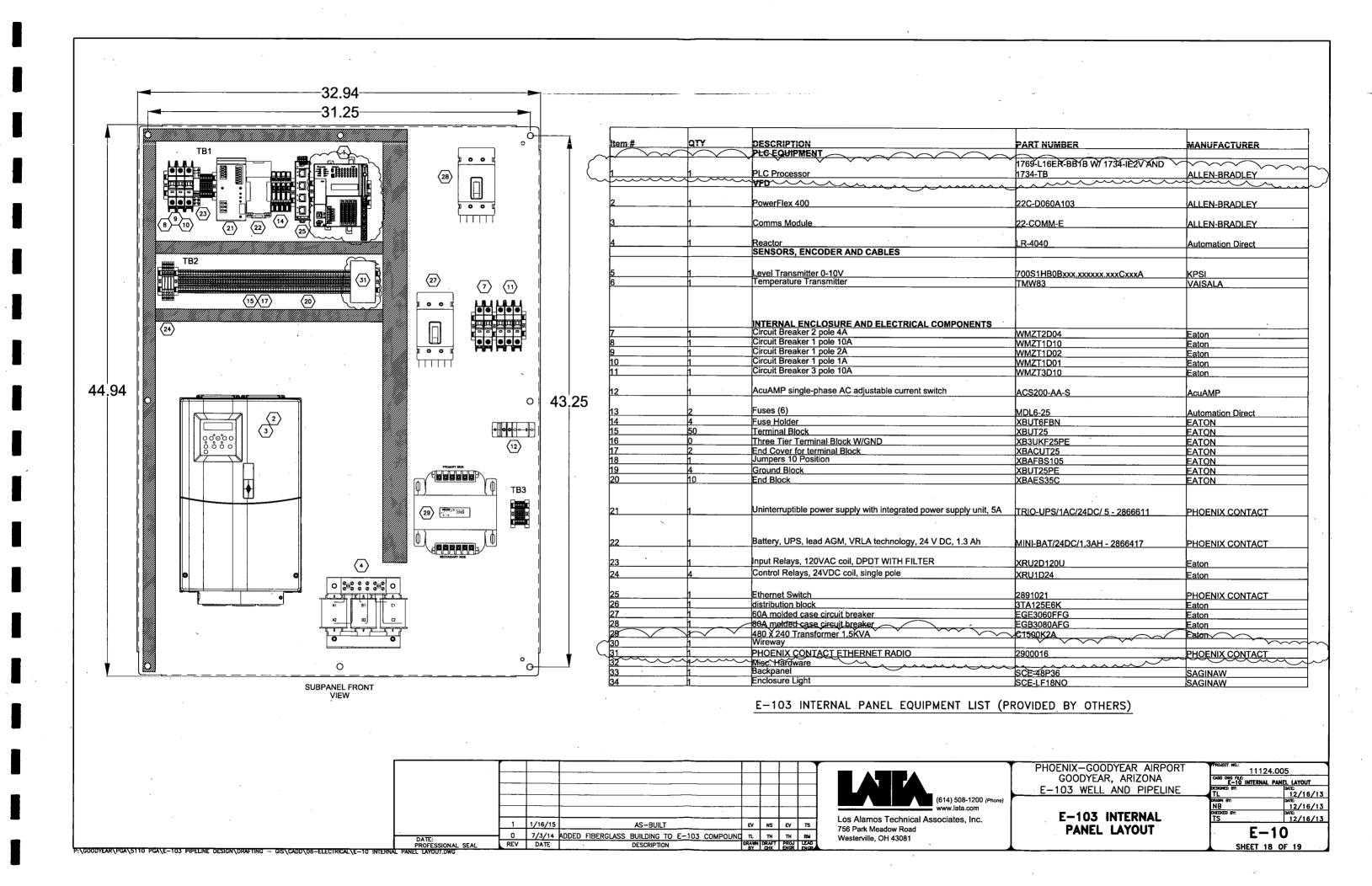


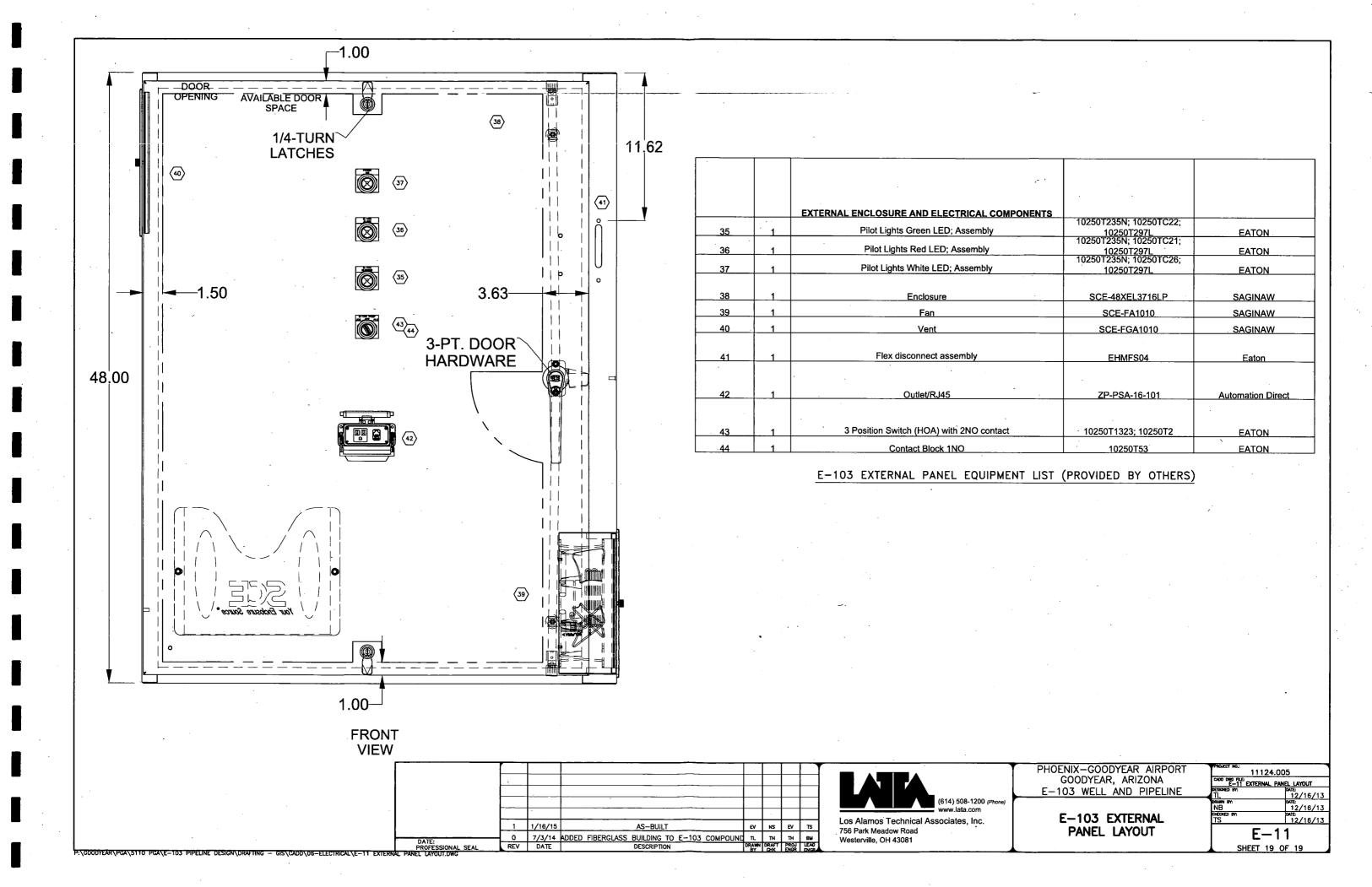












Pipeline As-Built Drawings

# **PHOENIX-GOODYEAR AIRPORT**

SOUTHERN SUBUNIT C WATER LINE INSTALLATION GOODYEAR, ARIZONA

#### BLUE STAKE NOTE

ARIZONA BLUE STAKE NOTIFICATION REQUIRED TWO FULL WORKING DAYS PRIOR TO EXCAVATION 1-800-782-5348 IN MARICOPA COUNTY (602) 263-1100

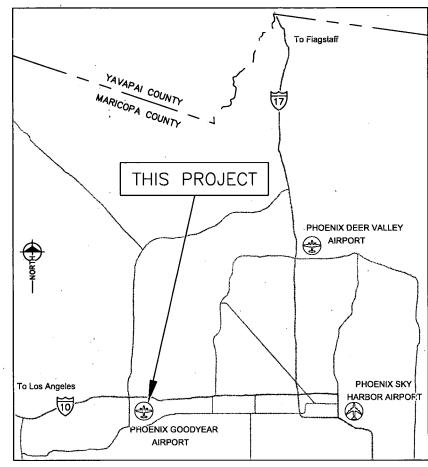
#### **BENCHMARKS**

BRASS CAP IN WEST HANDHOLE AT INTERSECTION OF YUMA ROAD AND LITCHFIELD ROAD. NORTHING (NAD83): 886208.62

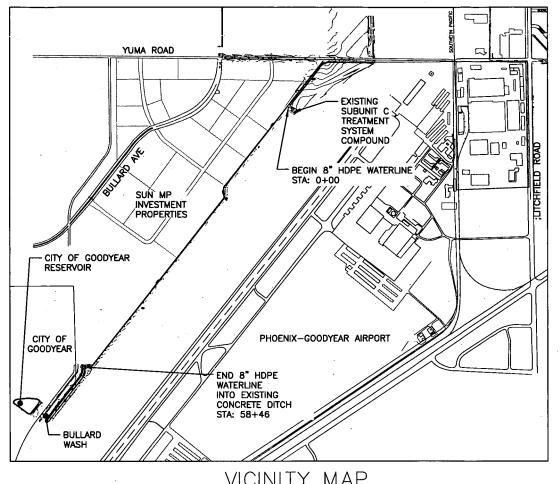
EASTING (NAD83): 565269.77 ELEVATION (NAVD88): 964.42

COTTON PICKER SPINDLE AT THE SECTION CORNER AT THE INTERSECTION OF BULLARD AVE. AND YUMA RD.

NORTHING (NAD83): 886267.71 EASTING (NAD83): 559998.78 ELEVATION (NAVD88): 979.40



LOCATION MAP NOT TO SCALE



1" = 800'

Los Alamos Technical Associates, Inc.

756 Park Meadow Road

Westerville, OH 43081

ERV TJS ERV TJS

#### LEGAL DESCRIPTION FOR PROJECT SITE

TOWNSHIP 1 NORTH, RANGE 1 WEST, SECTIONS 9, 16, & 17, MARICOPA COUNTY, ARIZONA

### **UTILITIES**

EXISTING INJECTION AND EXTRACTION WATER LINES OWNED BY GOODYEAR TIRE & RUBBER COMPANY

#### OWNER/DEVELOPER

GOODYEAR TIRE & RUBBER COMPANY 1144 EAST MARKET STREET AKRON, OHIO 44316 (330) 796-0578

#### **ENGINEER**

LOS ALAMOS TECHNICAL ASSOCIATES, INC. 756 PARK MEADOW ROAD WESTERVILLE, OHIO 43081 (614) 508-1200

## DRAWING INDEX

13

C-10

DIVE	AWIING	INDEX												INFORMA
DWG #	SHT #	DESCRIPTION	DWG #	SHT #	DESCRIPTI	ON			E:	STIMATE	D QUANTIT	TES		UNDER A AND COM AND BEL
G-1	1	TITLE SHEET	E-1	15	PROCESS	AND INSTRUMENTATION DIAGRAM				ITEM		QTY	UNIT	1
G-2	2	GENERAL NOTES	E-2	16	CONDUIT	AYOUT AT EXISTING SUBUNIT C COMPOUND							+	TODD JO
G-3	3	PROCESS FLOW DIAGRAM	E-3	17	CONDUIT	AND ELECTRICAL DETAILS LAYOUT	8"	SDR	21 F	IDPE		5,890	LF	BY
C-1	4	OVERALL SITE PLAN	E-4	18	ELECTRICA	L LAYOUT EXISTING SUBUNIT C BUILDING	4"	SDR	21 F	IDPE		30	LF_	AS-BUIL
C-2	5	WATERLINE PLAN AND PROFILE SHEET 1	E-5	19	ONE LINE	DIAGRAM AND ELECTRICAL DETAILS	3"	SDR	21 F	IDPE		5	LF	LAND SU
C-3	6	WATERLINE PLAN AND PROFILE SHEET 2	E-6	20	ELECTRICA	L SCHEMATIC SHEET 1	8"	SCH	80 F	PVC		10	LF	P.O. BOX
C-4	7	WATERLINE PLAN AND PROFILE SHEET 3	E−7	21	ELECTRICA	L SCHEMATIC SHEET 2	4"	SCH	80 F	PVC		10	LF	PHOENIX (602) 31
C-5	8	WATERLINE PLAN AND PROFILE SHEET 4	∙ E-8	22	ELECTRICA	L SCHEMATIC SHEET 3	8"	DI				40	LF	1
C-6	9	WATERLINE PLAN AND PROFILE SHEET 5	E-9.	23	ELECTRICA	L SCHEMATIC SHEET 4	<b>-</b> -			_			+	†
C-7	10	PIPING AND CONNECTION DETAILS AT EXISTING	Const Eas	<u> </u>	01/22/15	AS-BUILT	ERV	NS	ERV	TJS				
		SUBUNIT C COMPOUND	S. MIFICATE CE		10/01/13	ISSUED FOR BID	1	TJS		<del></del>		<b>4.5</b>   <b>1.</b>		
C-8	11	SECTION VIEWS AT EXISTING SUBUNIT C COMPOUND	36269 TOOO JOSEPH 6	4	07/11/13	100% SITE DESIGN	ERV	TJS	ERV	TJS				
C-9	12	VALVE VAULT DETAILS	STAUTTMAN	<u> </u>	06/18/13	ADDED DWG E-5 TO INDEX	ERV	TJS	ERV	TJS				(614) 508-1200 (Phone) www.lata.com

06/07/13

04/29/13

04/10/13

REV DATE

90% SITE DESIGN

REVISIONS TO 60% SUBMITTAL

60% SITE DESIGN

DESCRIPTION

#### AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

TODD JOSEPH STRUTTMANN 1/28/2015

AS-BUILT HORIZONTAL CONTROL VERIFIED BY ARTHUR A. WITZELL, REGISTERED LAND SURVEYOR, 10/20/2014.
INFINITY ENGINEERING SERVICES, INC. PHOENIX, AZ 85080 (602) 318-5785

PHOENIX-GOODYEAR AIRPORT

11168.005.04 G-1 COVER SHEET SOUTHERN SUBUNIT C PIPELINE

TITLE SHEET

GOODYEAR, ARIZONA

G-1SHEET 01 OF 23

DISCHARGE LOCATION DETAILS

STANDARD DETAILS

#### CITY OF GOODYEAR GENERAL NOTES FOR CONSTRUCTION

- A. Contractor shall obtain all necessary permits prior to construction.
- B. All construction shall conform with the City EDS&PM, City Standard Details, and current MAG Uniform Standard Specifications and Details for Public Works Construction.
- C. This set of plans has been reviewed for compliance with the City requirements prior to issuance of construction permits. However, such review shall not prevent the City from requiring correction of errors in plans found to be in violation of any law or ordinance.
- D. The City does not warrant any quantities shown on these plans.
- E. The City approval is for general layout in the right—of—way only. This approval is valid for a period of one year. Construction permits shall be obtained during this period or the plans shall be resubmitted for review and approval.
- F. An approved set of plans shall be available on the job site at all times.
- G. The City shall be notified 48 hours prior to any construction work and inspections (623-882-7979). Construction work concealed without inspection by the City construction inspector shall be subject to exposure at the Contractor's expense.
- H. Any work performed without the approval of the City engineer, or designee, and any work/material not in conformance with City engineering standards is subject to removal and replacement at the Contractor's expense.
- Right-of-way improvements shall not be accepted until "As-Built" plans have been submitted and approved by the City. (See as-built requirements)
- J. The developer is responsible for the removal or relocation of all obstructions within the right—of—way prior to starting new construction.
- K. The developer is responsible for arranging the relocation and associated costs of all utilities. A utility relocation schedule shall be submitted prior to the issuance of permits.
- L. The developer is responsible for obtaining or dedicating all required rights—of—way and easements to the City prior to issuance of permits.
- M. The Contractor shall contact BLUE STAKE (602-263-1100) at least 48 hours prior to construction. The Contractor shall locate all conflicts prior to construction.
- N. The Contractor shall barricade construction sites at all times per the City of Phoenix Traffic Barricade Manual. If needed, a traffic control plan shall be submitted to the City for approval in advance of construction.
- 0. Potable water is not available for construction use other than the filling and testing of new lines. The unlawful removal of water from a fire hydrant or any other source is a violation of the municipal code, punishable by fine and/or imprisonment.
- P. Prior to moving or destroying protected native plant species, the Contractor shall file a formal Notice of Intent with the Arizona Department of Agriculture (602-542-6408).
- Q. The Contractor shall comply with the Environmental Protection Agency National Pollutant Discharge Elimination System (NPDES) storm water requirements established for construction sites, ADEQ General Permit for discharge from construction activities, and the City of Goodyear Storm Water Management Plan.
- R. No person shall use any mechanical equipment for land leveling or clearing, road construction, trenching, excavating, demolition, nor engage in any earthmoving activity without first obtaining a permit from the Maricopa County Air Quality Department (602-506-0666), 1001 N. Central Avenue, Suite 150, Phoenix, AZ 85003. (This notice is issued pursuant to A.R.S. 36-779.07, Notice of Building Agencies.)
- S. These plans reflect conditions as they exist at the time of design. If existing conditions have changed by the time of construction the Contractor shall notify the City and these plans may have to be amended prior to proceeding with construction activities.

#### GENERAL ABBREVIATIONS

	ABC	AGGREGATE BASE COURSE	LBS	POUNDS
	A.C.	ASPHALT-CONCRETE	·····INJ.	INJECTION
	AC	ALTERNATING CURRENT	1/0	INPUT/OUTPUT
	APPROX	APPROXIMATELY	LIT	LEVEL INDICATING TRANSMITTER
	APS	AMERICAN POWER STANDARD	MA	MILLIAMPS
	AWG	AMERICAN WIRE GAUGE	MAG	MARICOPA ASSOCIATION OF
	BV	BUTTERFLY VALVE		GOVERNMENTS
	COG	CITY OF GOODYEAR	MJ	MECHANICAL JOINT
	CONC.	CONCRETE	NTS	NOT TO SCALE
	C.S.	CARBON STEEL	PLC	PROGRAMMABLE LOGIC CONTROLLER
	CV	CHECK VALVE	PSI	POUNDS PER SQUARE INCH
	DEG	DEGREES	PSV	PRESSURE SUSTAINING VALVE
	DC	DIRECT CURRENT	PVC	POLYVINYL CHLORIDE
	DI		RED.	REDUCING
		DUCTILE IRON	RGS	RIGID GALVANIZED STEEL
	DISC.	DISCONNECT	· SCH	SCHEDULE
	-DWG	DRAWING	SDR	STANDARD DIMENSION RATIO
(	EDS&PM	ENGINEERING DESIGN STANDARDS AND POLICIES MANUAL	SQ	SQUARE
_	ELEV	ELEVATION	STA	STATION
	EOP .	EDGE OF PAVEMENT	TYP	TYPICAL
	FIT	FLOW INDICATING TRANSMITTER	THWN	MOISTURE & HEAT RESISTANT
	FLG	FLANGED .		THERMOPLASTIC
	FLJ	FLANGE JOINT	TWSP	TWISTED WIRE SHIELDED PAIR
	FT	FEET	UV	ULTRAVIOLET
	GAC	GRANULAR ACTIVATED CARBON	٧	VOLT
	GND	GROUND	VFD	VARIABLE FREQUENCY DRIVE
	GTRC	THE GOODYEAR TIRE AND RUBBER	W	WATTS
	om.o	COMPANY	XFMR	TRANSFORMER
	GV	GATE VALVE	XHHW	MOISTURE RESISTANT THERMOSET
	HDPE	HIGH-DENSITY POLYETHYLENE		
	HZ	HERTZ		

#### PROJECT SPECIFIC NOTES

- A. In addition to note B of City of Goodyear General Notes for Construction, all construction shall conform with the Technical Specifications and this plan set. In the event that there is a conflict, the Technical Specifications take precedence.
- B. In contrast to note J of City of Goodyear General Notes for Construction, the Contractor is responsible for the removal or relocation of all obstructions within the right—of—way prior to starting construction.
- C. In contrast to note K of City of Goodyear General Notes for Construction, the Contractor is responsible for arranging the relocation and associated costs of all utilities. A utility relocation schedule shall be submitted prior to the issuance of permits.
- D. In contrast to note L of the City of Goodyear General Notes for Construction, the Contractor is responsible for obtaining or dedicating all required rights—of—way and easements to the City prior to issuance of permits.
- E. The information presented in this plan set has been submitted to the City of Phoenix for review and approval via the Tenant Improvement Process. Additionally, GTRC has been granted access to conduct this work through the November 7, 1991 Access Agreement between the City of Phoenix and GTRC.
- F. The Contractor is responsible for following and operating within the guidelines set forth by OSHA, the USEPA, and any other regulatory agency or political entity having jurisdiction over the project. This includes the procurement of any and all applicable permits, bonds, or other assurances required by local, state, or federal agencies.
- G. The Contractor shall conduct his work activity in such manner as to minimize the release of any existing materials (waste or otherwise) to the environment.
- H. The Contractor is required to supply and install any erosion and sediment control measures as required by law or as directed by the project owner.
- The Contractor shall comply with basic provisions of OSHA Health and Safety Standards 29 CFR 1910 and General Construction Standards (29 CFR 1926) as appropriate to this construction.
- J. Areas denoted on the Plan set as "work by others" are not included in this scope of work.
- K. Construction permits shall be acquired by the Contractor.
- L. The Contractor shall conduct work activities during allowable construction work hours allowed by the Phoenix—Goodyear Airport.
- M. The owner's on-site engineer shall inspect and approve the lines before backfilling.

#### GENERAL SYMBOLS

----- PROPERTY BOUNDARY

FENCE

TOPOGRAPHIC CONTOUR

4 ...

CONCRETE



UNDISTURBED EARTH



RIP-RAP/GRAVEL



PIPE FOUNDATION



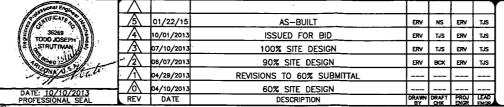


BACKFILL

PIPE BEDDING



A: DETAIL NUMBER
B: DRAWING NUMBER OF DETAIL CALL OUT
C: DRAWING NUMBER OF DETAIL



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Los Alamos Technical Associates, Inc. 756 Park Meadow Road Westerville, OH 43081 PHOENIX-GOODYEAR AIRPORT GOODYEAR, ARIZONA SOUTHERN SUBUNIT C PIPELINE

GENERAL NOTES

THROUGHT NO.:

111168.005.04

CADD DWD FILE.
G-2 GENERAL NOTES

DOTE

DATE

GENERAL BY:

GENERAL BY:

GENERAL BY:

GENERAL BY:

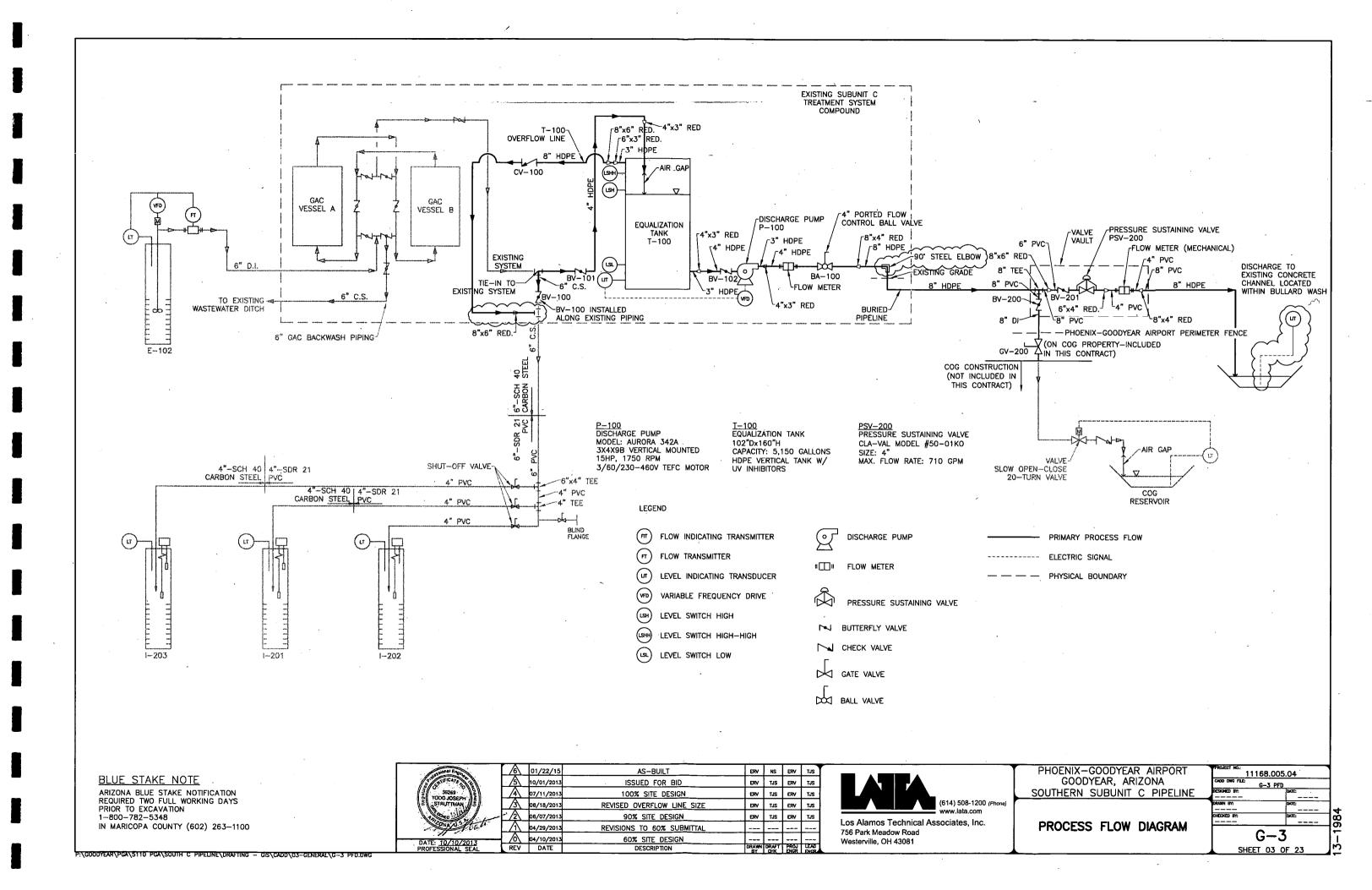
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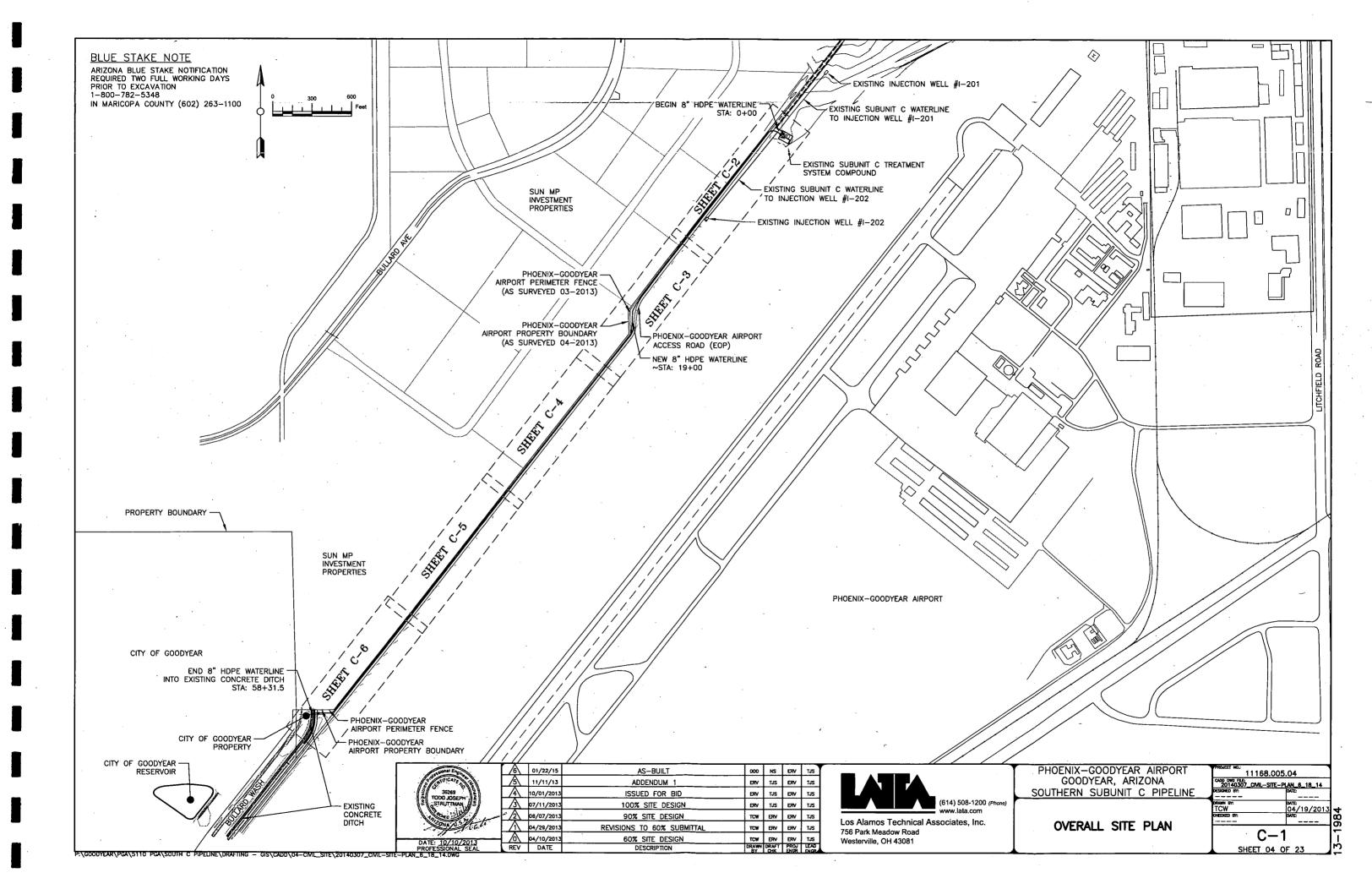
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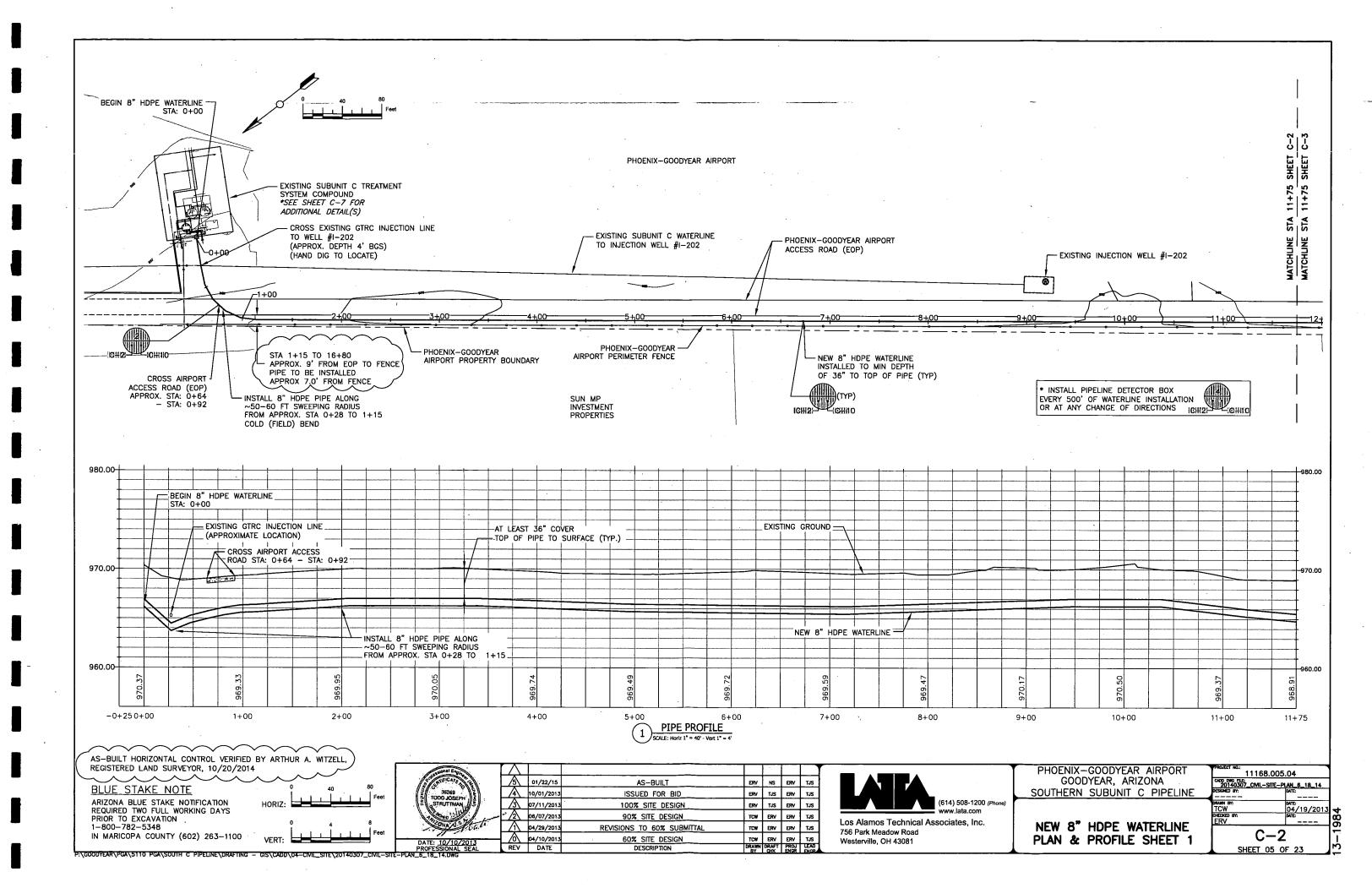
DATE

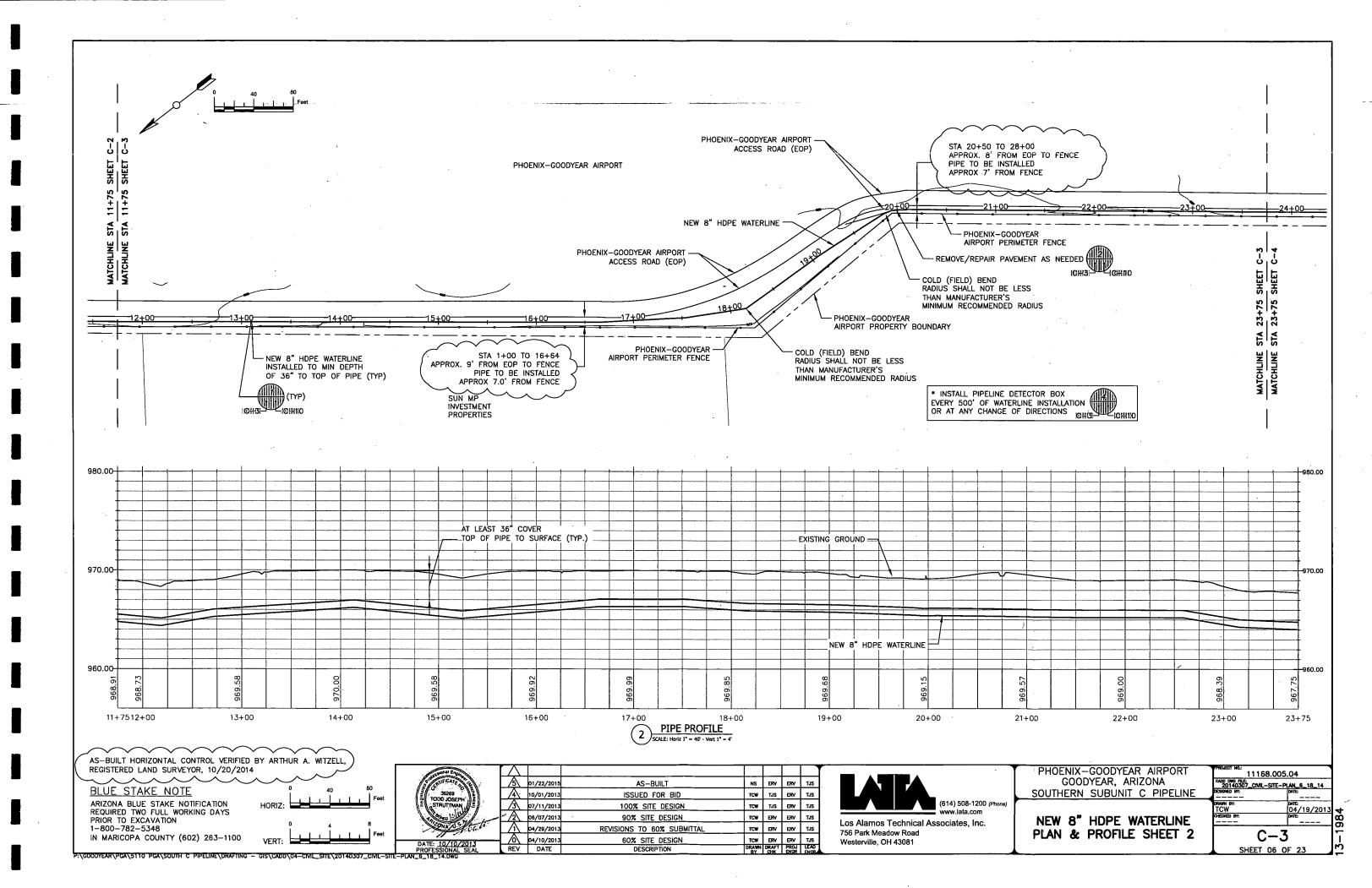
SHEET 02 OF 23

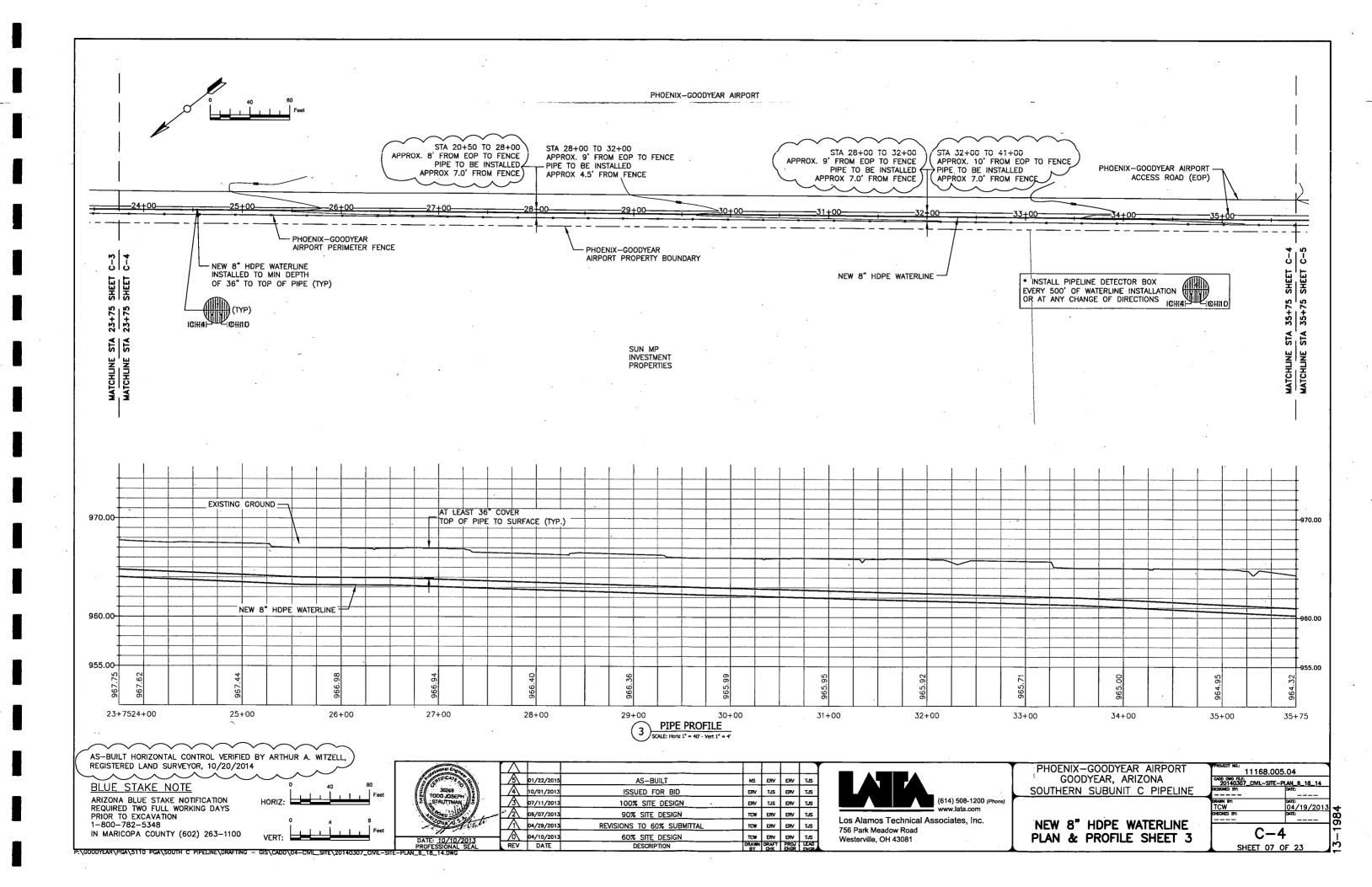
P:\GOODYEAR\PGA\5110 PGA\SOUTH C PIPELINE\DRAFTING - GIS\CADD\O3-GENERAL\G-2 GENERAL NOTES.DW

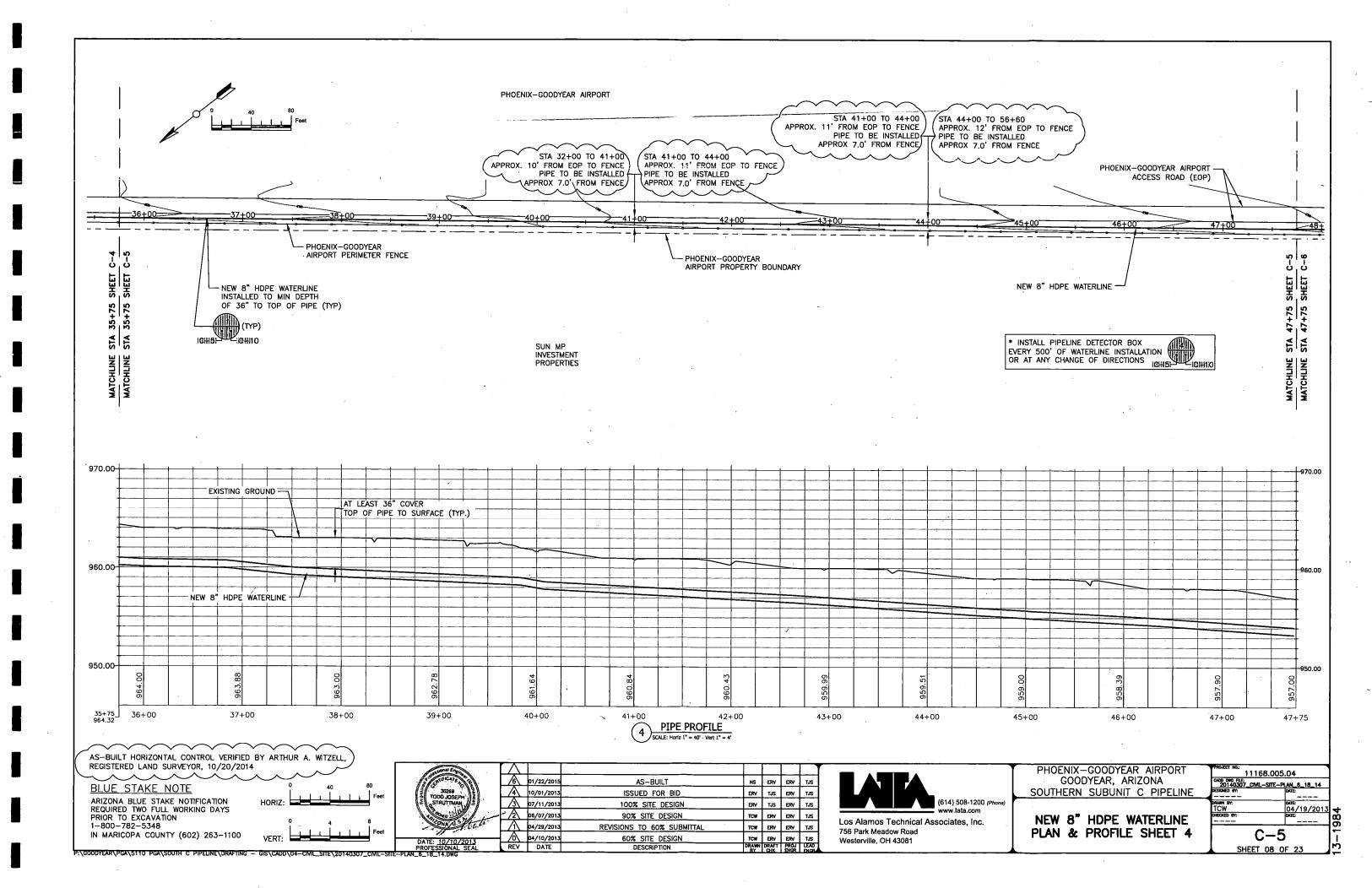


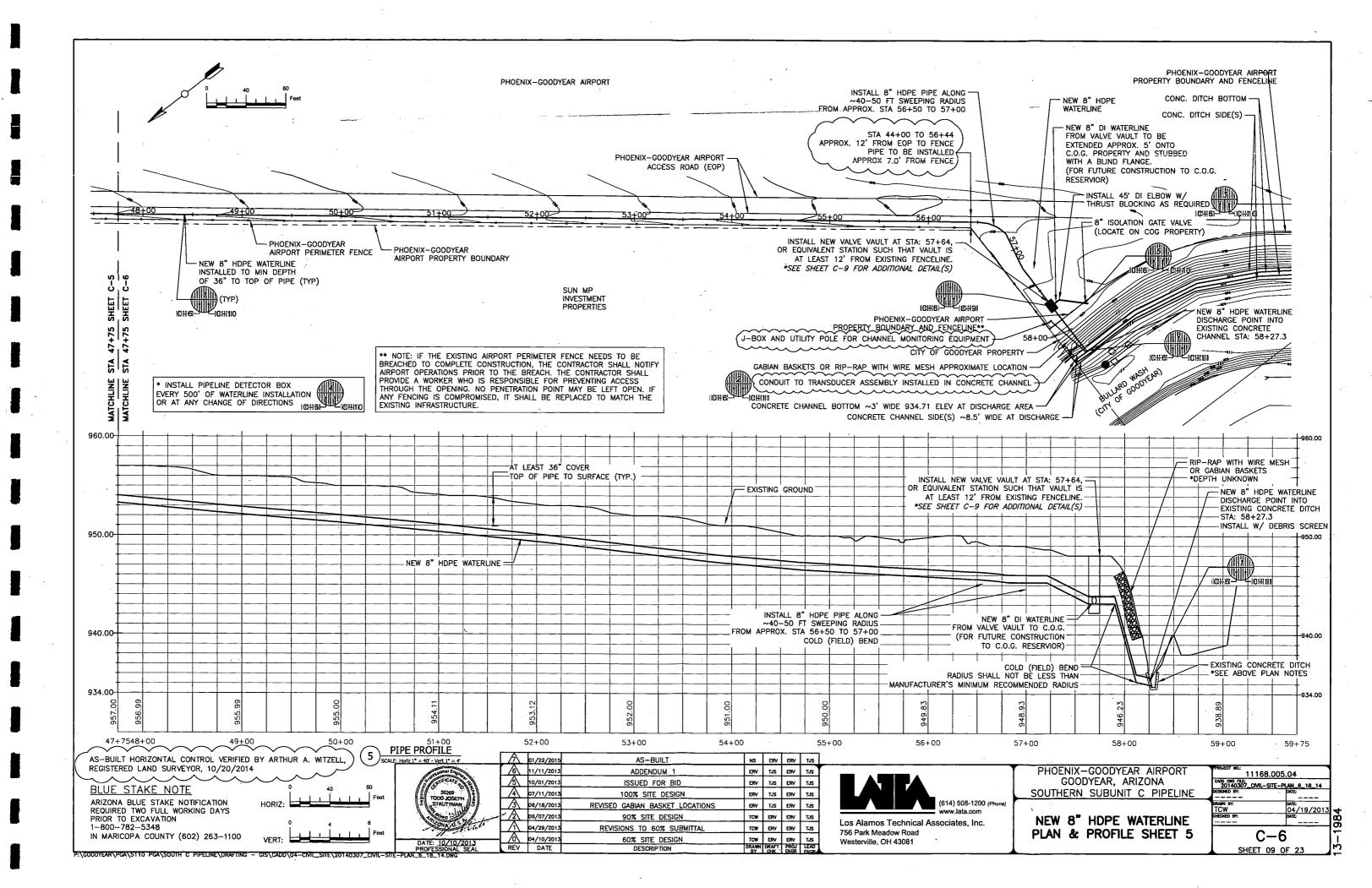


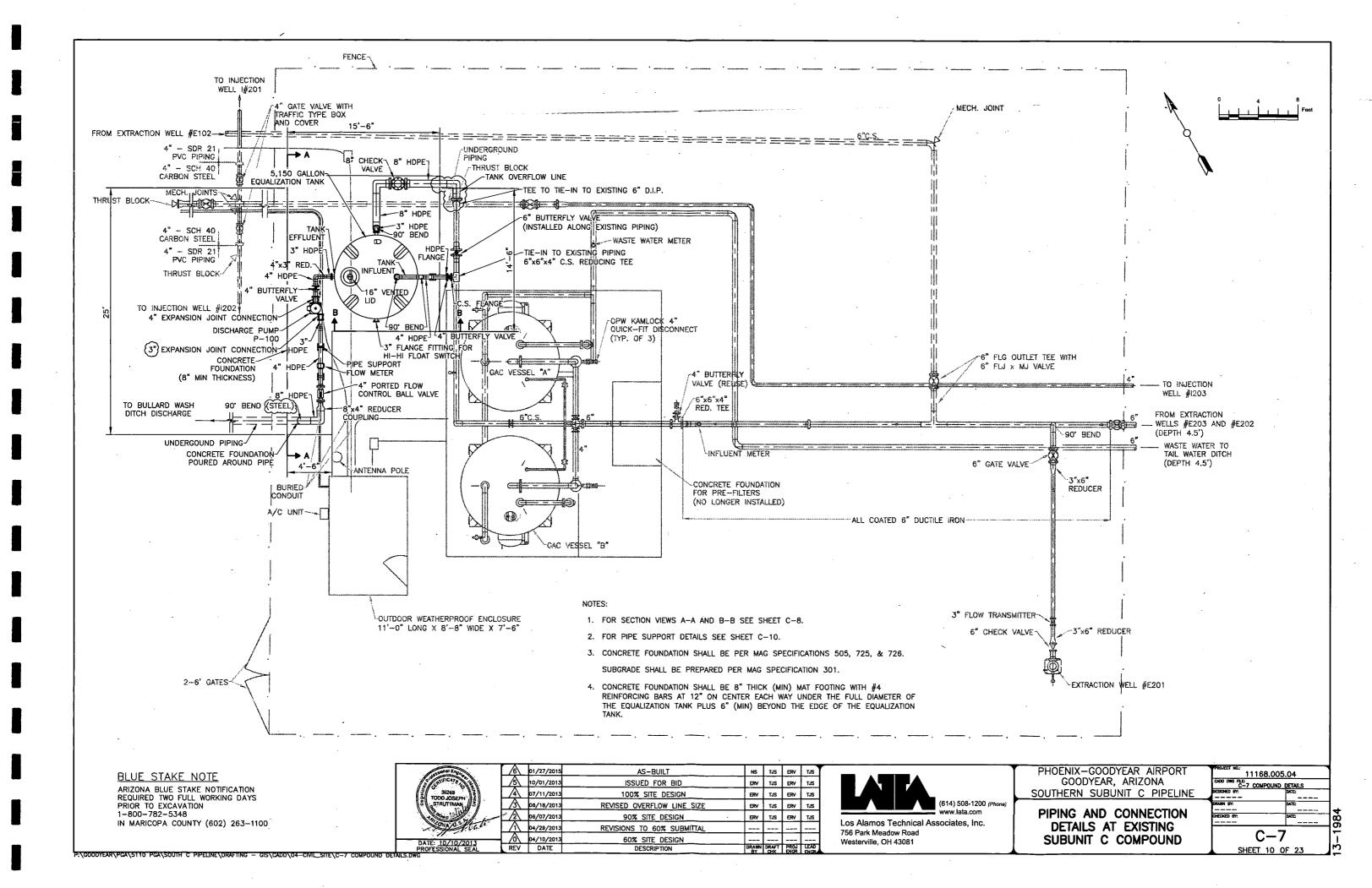


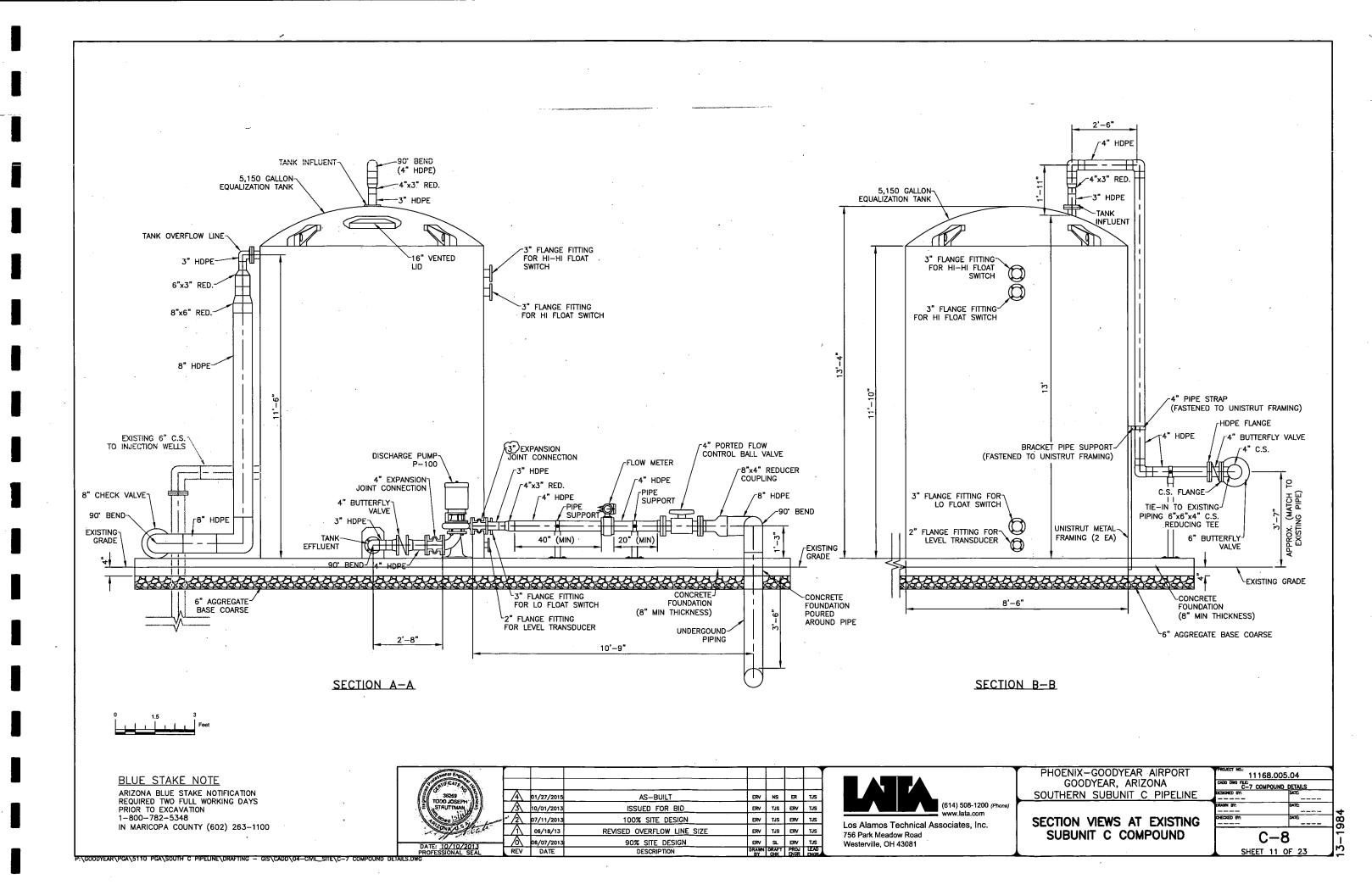


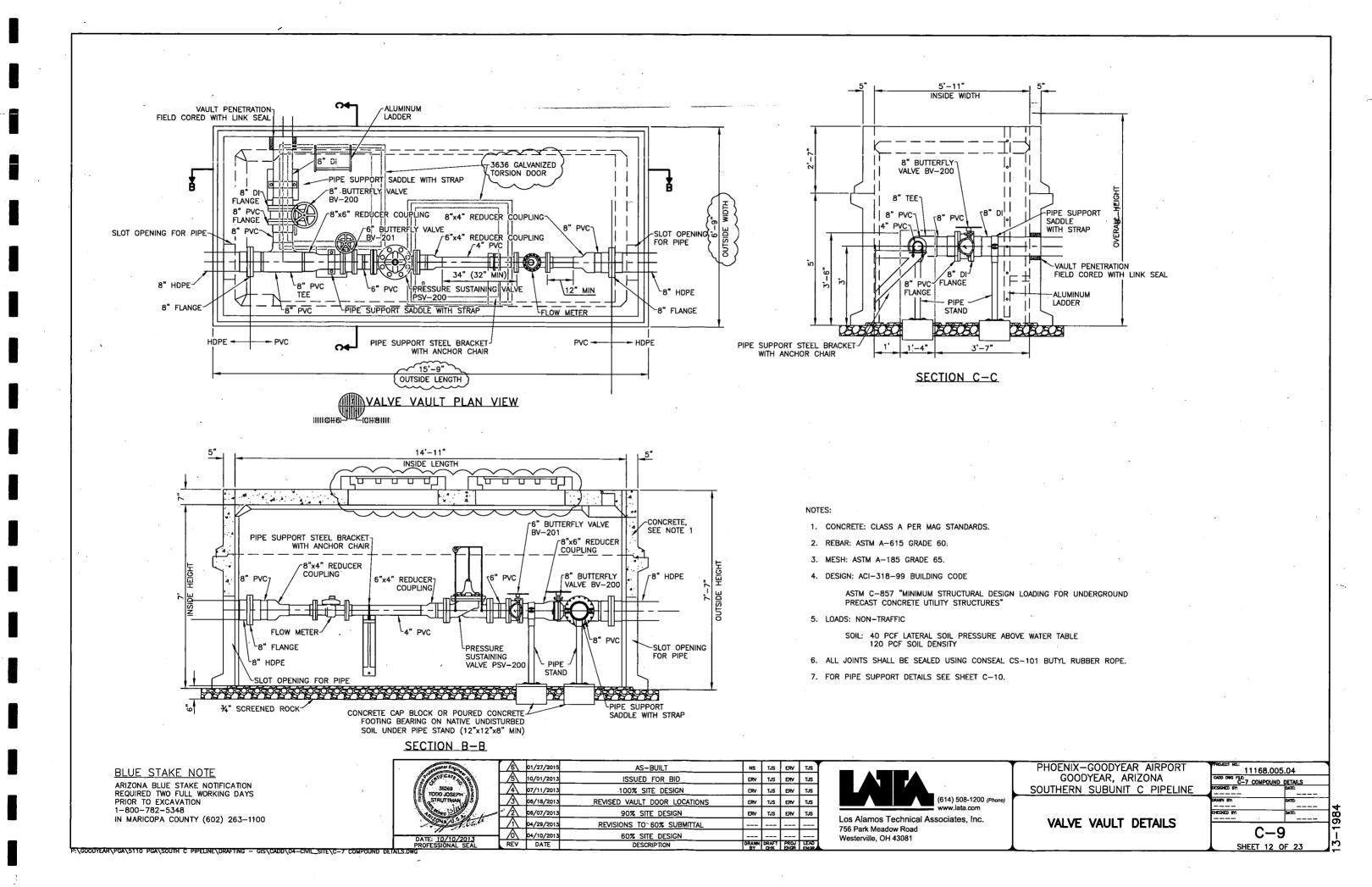


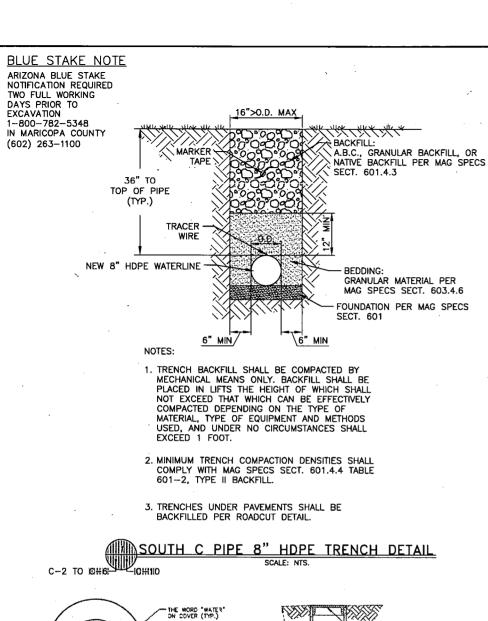












IYPE 'B'

VIEW A-A

VALVE BOX SHALL BE ADJUSTED TO THE FINISHED GRADE PRIOR TO PLACING OF THE PORTLAND CEMENT CONCRETE

2. USE PARKSON TYLER, APCO OR EQUAL DEEP SKIRTED LID

(4" OR MORE) TYPE, SLIDING ADJUSTABLE CAST IRON VALVE

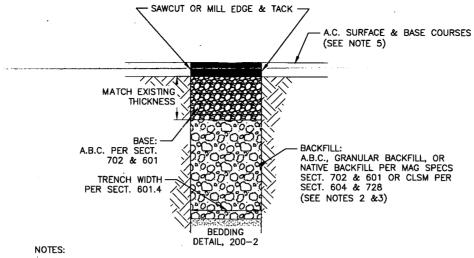
CONCRETE RING -NOT REQUIRED
NOT REQUIRED
IN UNPAYED
AREAS

WHIS-

--- B" THICK CONCRETE RING W/ 30" OUTSIDE DIA

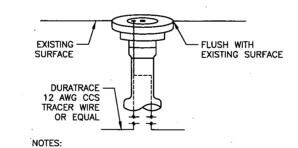
NOTES:

SFE NOTE 2



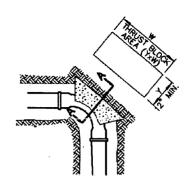
- 1. PAVEMENT MATCHING AND SURFACE REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 336.
- 2. TYPE OF BACKFILL AND BASE: CLSM SHALL BE 1/2-SACK PER SECTIONS 604 AND
- TRENCHES LESS THAN 24" WIDE SHALL BE BACKFILLED FROM THE TOP OF BEDDING 3. TO BOTTOM OF SURFACING MATERIALS WITH 1/2-SACK CLSM PER SECTIONS 604 AND
- 4. BASE, BACKFILL, BEDDING AND FOUNDATION COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 601.
- ASPHALT CONCRETE SURFACE AND BASE COURSES SHALL COMPLY WITH SECTION 336,2,4,1 UNLESS OTHERWISE SPECIFIED.

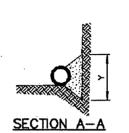




- 1. DETECTOR BOXES LOCATED EVERY 500' AND CHANGE IN DIRECTION
- 2. SNAKEPIT MODEL CD14\*TP OR EQUAL
- 3. DURATRACE 12 AWG CCS TRACER WIRE TO FOLLOW PIPING



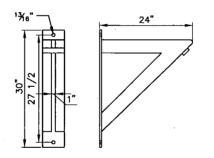




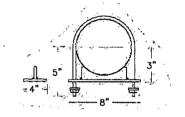
- 1. TABLE IS BASED ON 200 PSI TEST PRESSURE AND 3,000 LBS/SQ FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
- 2. AREAS FOR PIPES LARGER THAN 16" SHALL BE CALCULATED FOR EACH PROJECT.
- 3. FORM ALL NON-BEARING VERTICAL SURFACES.
- 4. THRUST BLOCKS ARE TO EXTEND TO UNDISTURBED GROUND. CONCRETE TO BE CLASS 'C', SECT. 725.

MINIMUM THRUST BLOCK AREA REQUIRED (YxW) (SQ. FT.)													
WATER PIPE													
PIPE SIZE	TEE, DEAD END, 90' BEND	45' & 22 1/2' BENDS											
4" OR LESS	3	3											
6"	4	3											
8"	6	3											
10"	10	5											
12"	14	7											
16"	24	12											

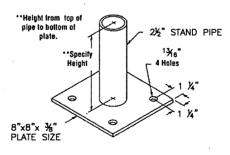




WELDED STEEL BRACKET PIPE SUPPORT: COMPLIANCE: A-A-1192A TYPE 32, MSS-SP 69 TYPE 32 LOAD: 1500 LBS (MAX)
FOR USE WITH DROP ROD ANCHOR CHAIR ASSEMBLY



STEEL ANCHOR CHAIR ASSEMBLY: FOR USE WITH WELDED STEEL BRACKET PIPE SUPPORT. INSTALL WITH SQUARE WASHER SET UNDER LIPS OF ANGLE IRON SECTION OF BRACKET AND NUTS TIGHTENED ON THE U-BOLT TO PREVENT MOVEMENT OF





STEEL PIPE SADDLE WITH STRAP: FOR USE WITH BASE STAND.

### PIPE SUPPORT DETAILS

NOT TO SCALE

PHOENIX-GOODYEAR AIRPORT GOODYEAR, ARIZONA SOUTHERN SUBUNIT C PIPELINE

> **NEW 8" HDPE WATERLINE** STANDARD DETAILS

7PROJECT NO.: 11168.005	.04
CADO DINO FILE: 20140307_CML-SITE-PI	AN_6_18_14
 DESIGNED BY:	DATE:
DRAIN BY: TCW	DATE: 04/19/201
CHECKED BY:	DATE:
C-10	)

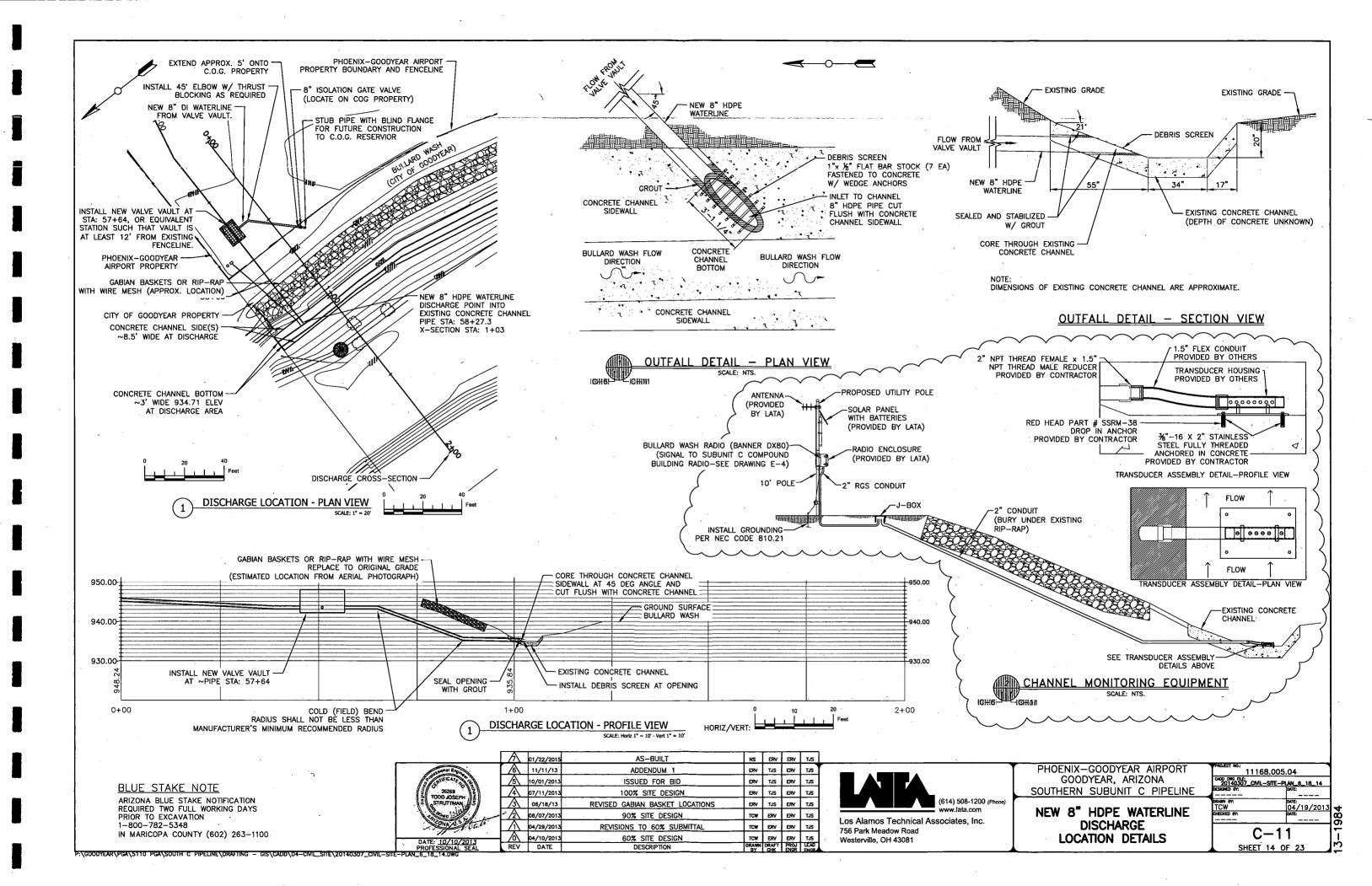
SHEET 13 OF 23

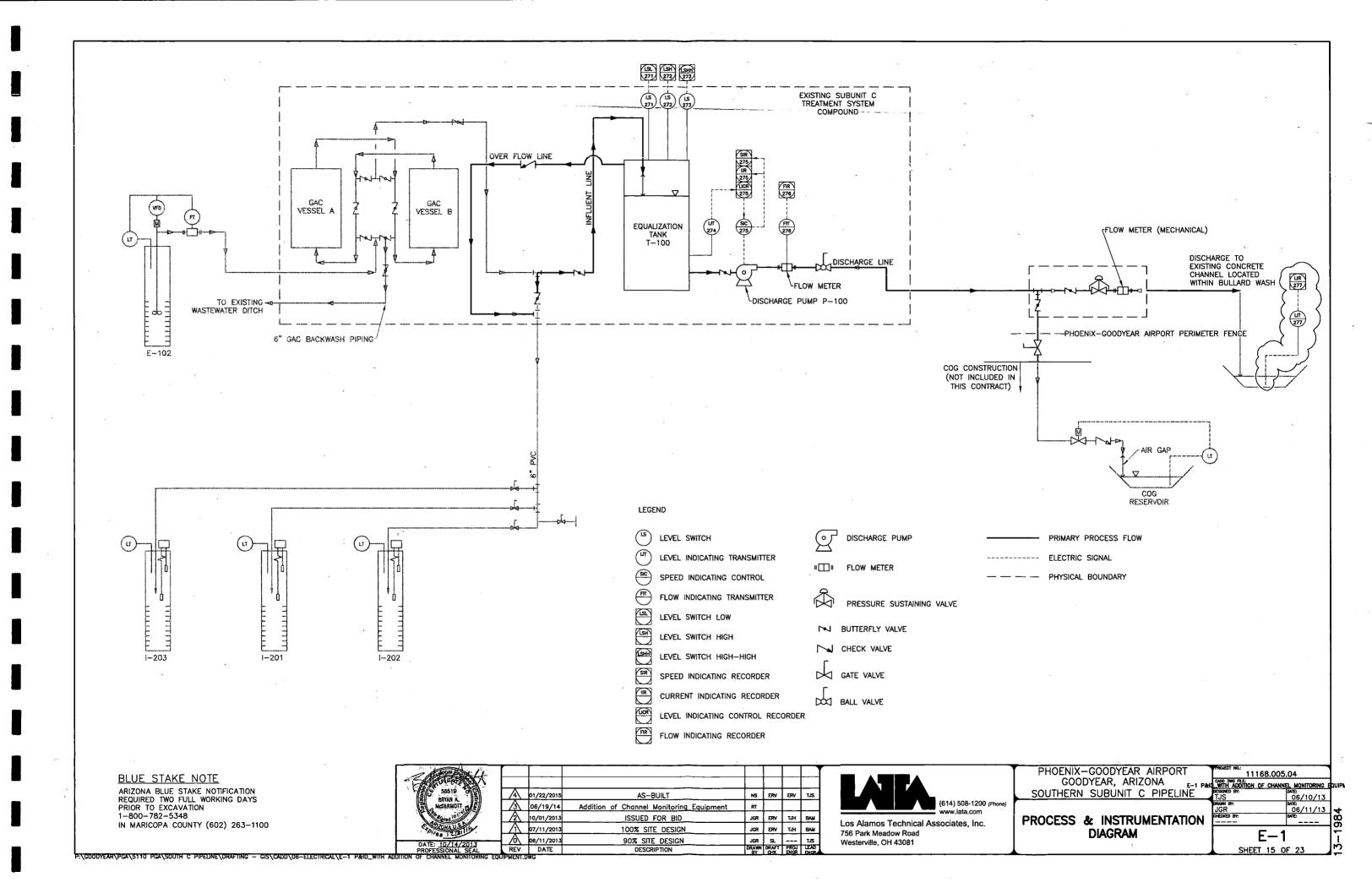


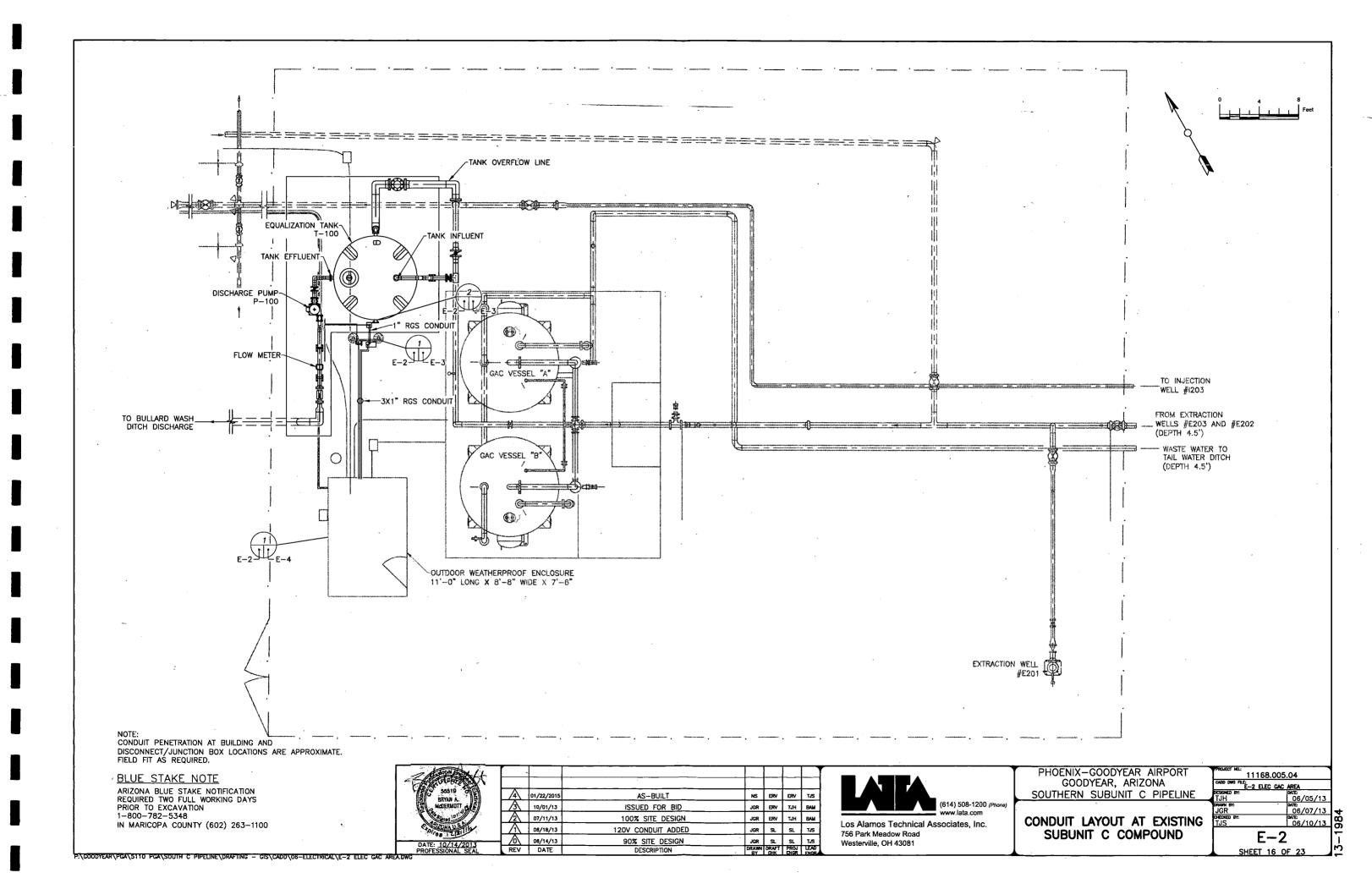
(614) 508-1200 (Phone

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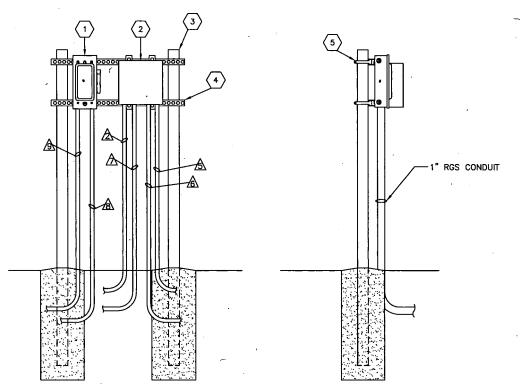
TOW ERV ERV TUS







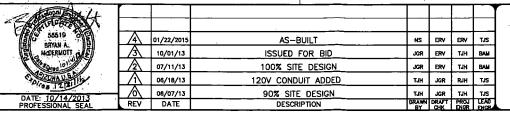
Bill of Material												
ltem#	Qty	Description	Part Number	Manufacturer-								
1	1	30 AMP NONFUSED DISCONNECT 3R	HU361	SQUARE D								
2	2	12"X12"X6" ENCLOSURE	SCE-12EL1206LP	SAGINAW								
3	2	3" RGS	-	-								
4	4	1 5/8" UNISTRUT (TYP) (6' LONG)	-	-								
5	4	UNISTRUT CLAMP (TYP)	-	-								
6	3	HORIZONTAL LEVEL SWITCH	L6EPB-B-S-3-O-B1HB	DWYER INSTRUMENTS								
7	1	CONDULET LR	- ,	-								
8	3	CONDULET T	-									
9	PRESSURE TRANSMITTER, 0-30 psi W/ LOCAL DISPLAY		2088	ROSEMOUNT								
J	1	SCREW IN SURGE PROTECTION BARRIER	FN-LB-I	PEPPERL+FUCHS								
10	1	6"X6"X6" ENCLOSURE	SCE-6R66	SAGINAW								





**BLUE STAKE NOTE** 

ARIZONA BLUE STAKE NOTIFICATION REQUIRED TWO FULL WORKING DAYS PRIOR TO EXCAVATION 1-800-782-5348 IN MARICOPA COUNTY (602) 263-1100





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PHOENIX-	-GOODYEA	R ,	AIRPORT
G00E	YEAR, AR	IZC	NA
SOUTHERN	SUBUNIT	С	PIPELIN

CONDUIT AND ELECTRICAL

11168.005.04 06/07/13 E-3

SHEET 17 OF 23

TO LEVEL SWITCHES

TO FIT-276

TO RACK

JUNCTION BOX DETAIL

LIT-274 MOUNTING DETAIL

CONDUIT SCHEDULE

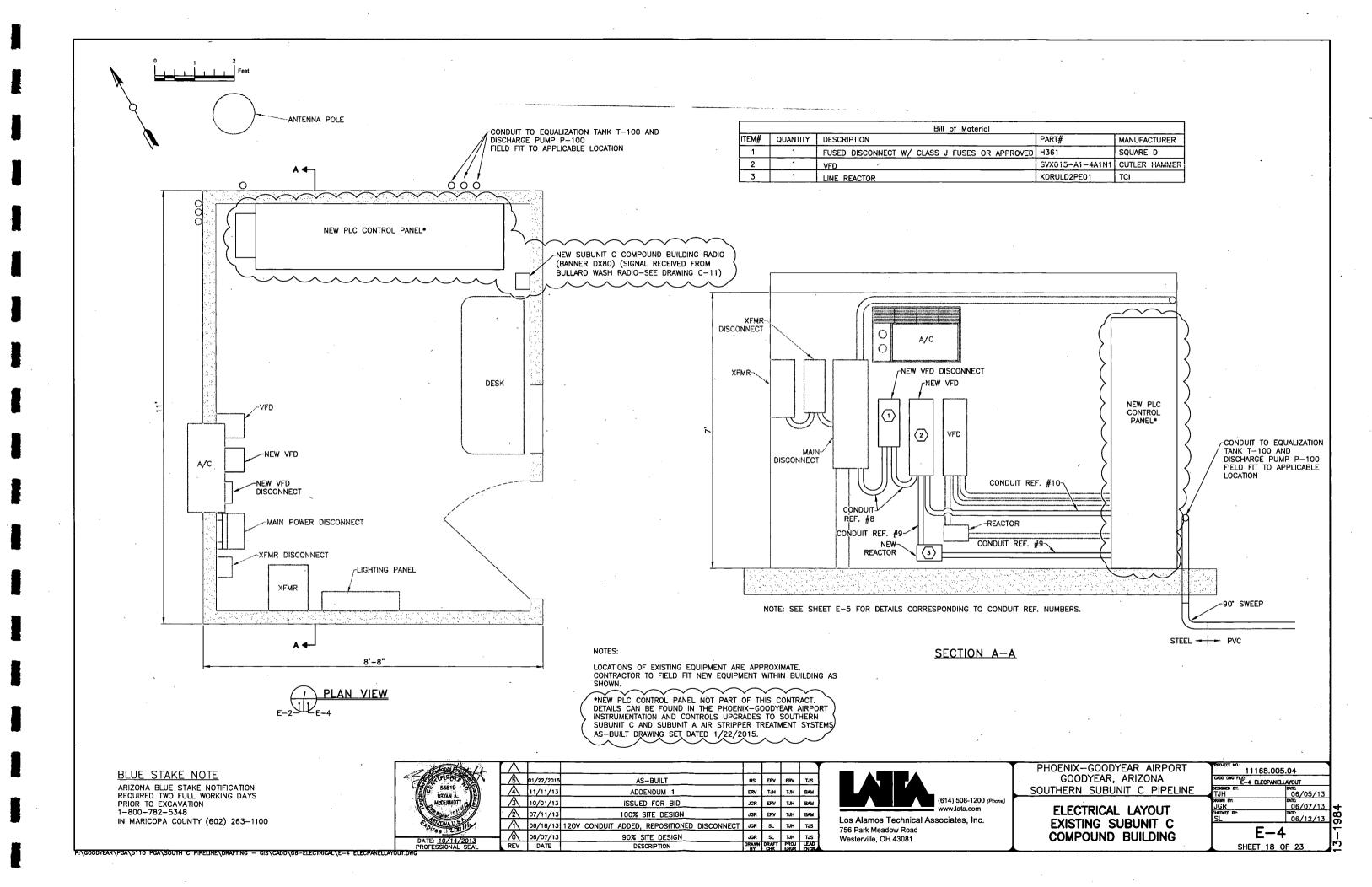
CONNECTED TO FLOW METER FIT-276

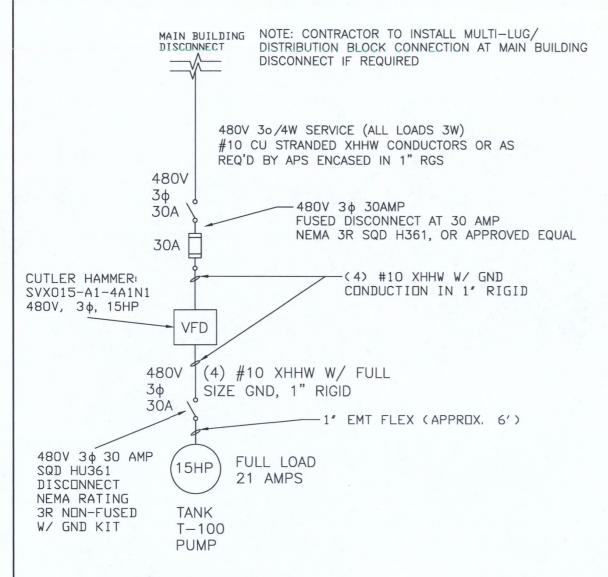
DETAILS LAYOUT

SEE DETAIL THIS SHEET

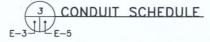
E-2 FOUALIZATION TANK T-100 CONTROLS

NTS FIELD FIT AS REQUIRES



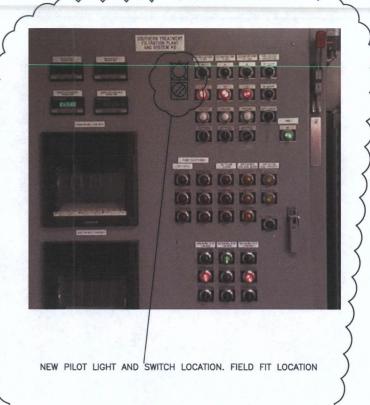


		CONDUIT SCHEDULE										
CONDUIT REF. # CONDUIT SIZE WIRE FILL DETAILS												
1	1" RGS	6 EA, 14 AWG, THWN	120V TO SWITCHES									
2	1" RGS	6 EA, 14 AWG, THWN	120V TO JUNCTION BOX									
3	1" RGS	1 EA, 18 AWG, TWSP	4-20mA TO LIT									
4	1" RGS	1 EA, 18 AWG, TWSP	4-20mA TO FIT									
5	1" RGS	2 EA, 18 AWG, TWSP	4-20mA TO JUNCTION BOX									
6	1" RGS	2 EA, 18 AWG, TWSP	4-20mA FROM BUILDING									
7	1" RGS	6 EA, 14 AWG, THWN	120V FROM BUILDING									
8	1" RGS	3EA, 10 AWG, THWN W/ 10 AWG GND	480 V FROM BUILDING									
9	1" RGS	3EA, 10 AWG, XHHW W/ 10 AWG GND	480 V TO PUMP									
10	1" RGS	2EA, 18 AWG, TWSP 6EA, 16 AWG, (24 VDC)	VFD TO PLC CONTROL									



#### NOTES:

- 1. ALL ELECTRICAL EQUIPMENT INSTALLED WILL MATCH EXISTING SYSTEM AIC RATING.
- 2. SEE DRAWING E-2 FOR APPROXIMATE DISTANCES OF CONDUIT RUNS.



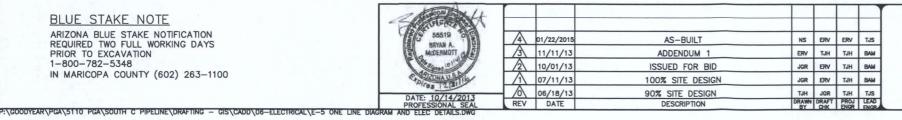
PANEL LAYOUT

PANEL REPLACED AS PART OF UPGRADE WORK DETAILED IN THE PHOENIX—GOODYEAR AIRPORT INSTRUMENTATION AND CONTROLS UPGRADES TO SOUTHERN SUBUNIT C AND SUBUNIT A AIR STRIPPER TREATMENT SYSTEMS AS-BUILT DRAWING SET DATED

**BLUE STAKE NOTE** ARIZONA BLUE STAKE NOTIFICATION REQUIRED TWO FULL WORKING DAYS PRIOR TO EXCAVATION 1-800-782-5348 IN MARICOPA COUNTY (602) 263-1100

ONE LINE DIAGRAM

21 AMPS OF LOAD ADDED TO SYSTEM



(614) 508-1200 (Phone) www.lata.com

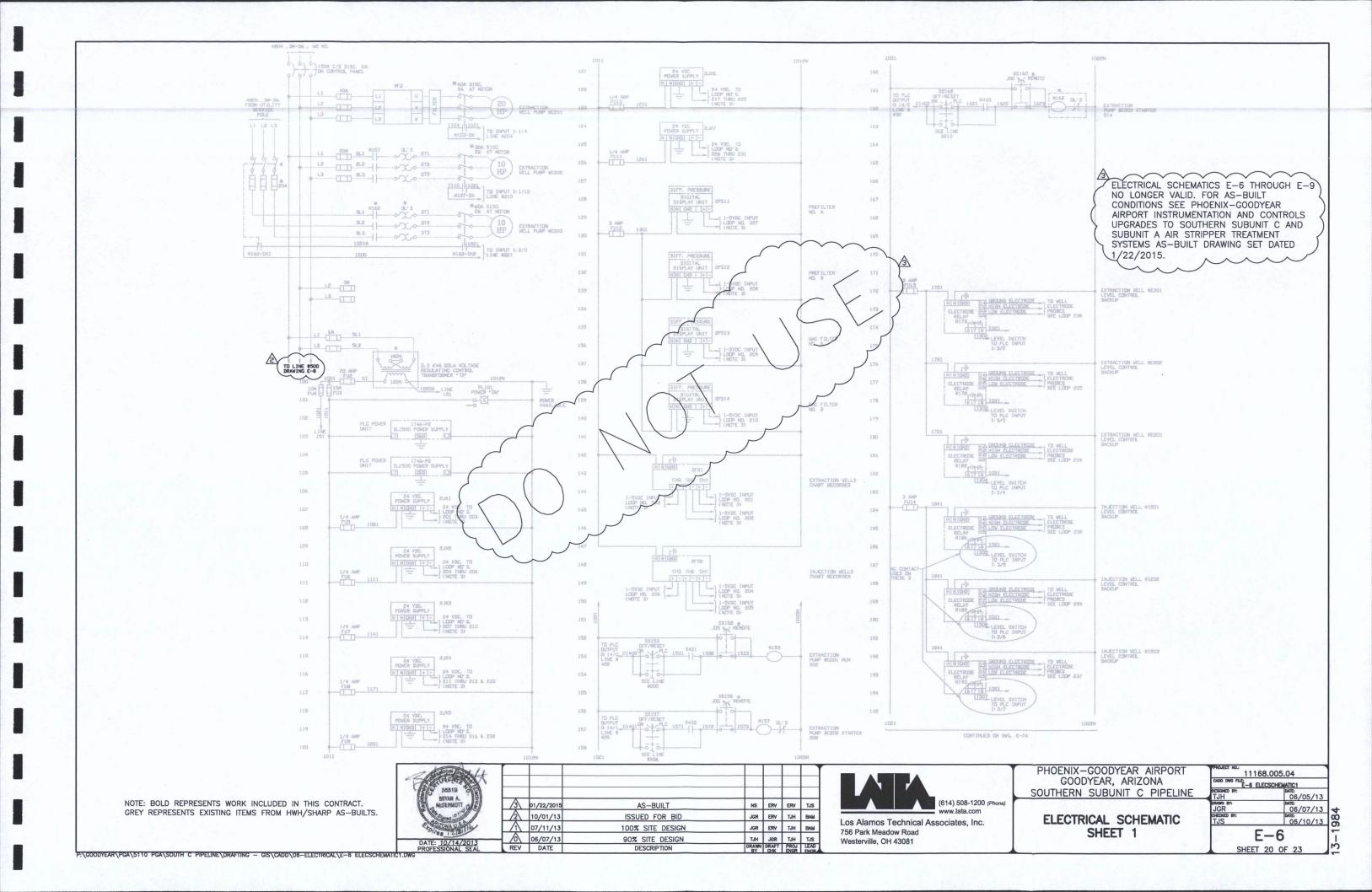
Los Alamos Technical Associates, Inc. 756 Park Meadow Road Westerville, OH 43081

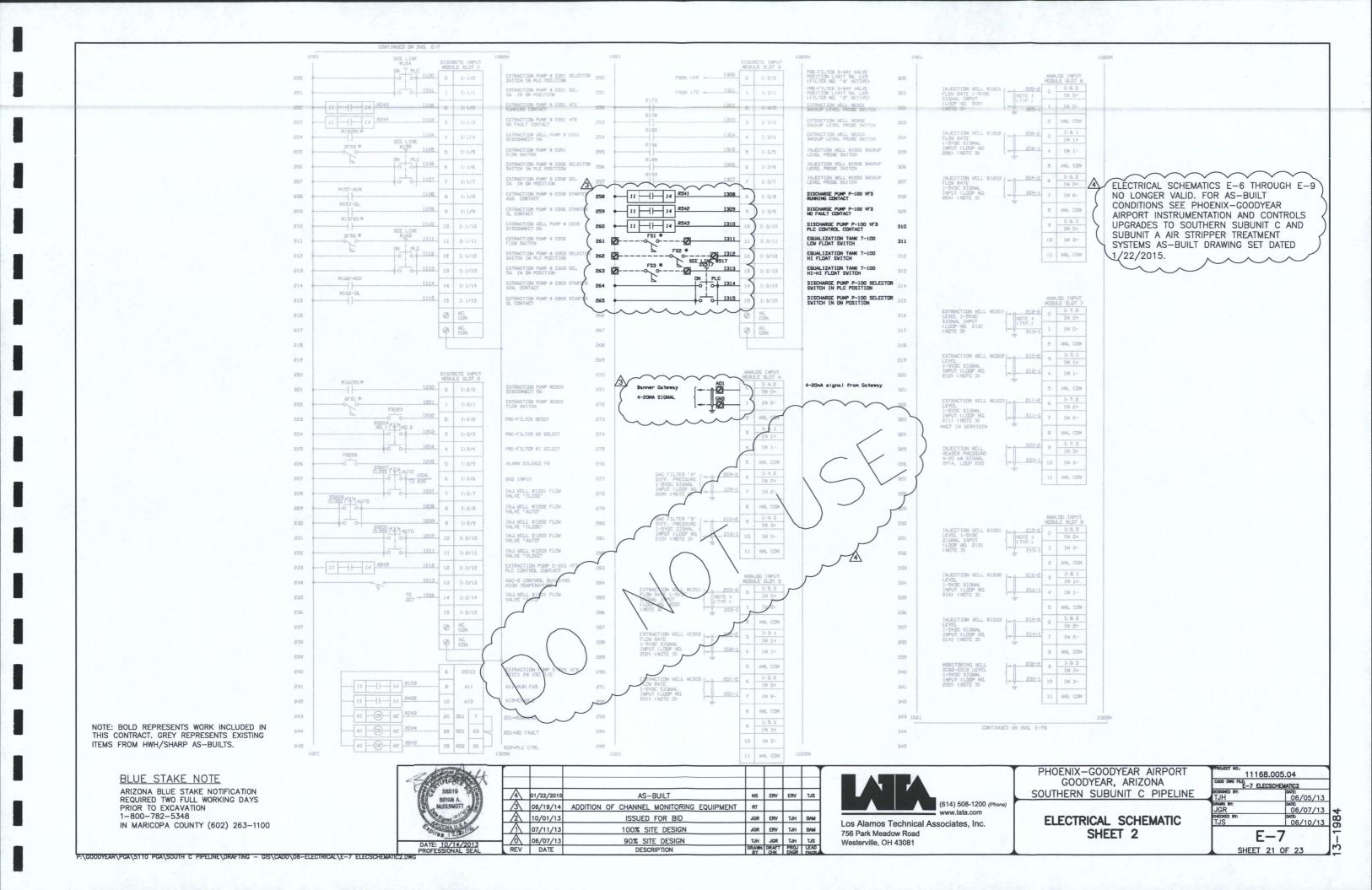
PHOENIX-GOODYEAR AIRPORT GOODYEAR, ARIZONA SOUTHERN SUBUNIT C PIPELINE

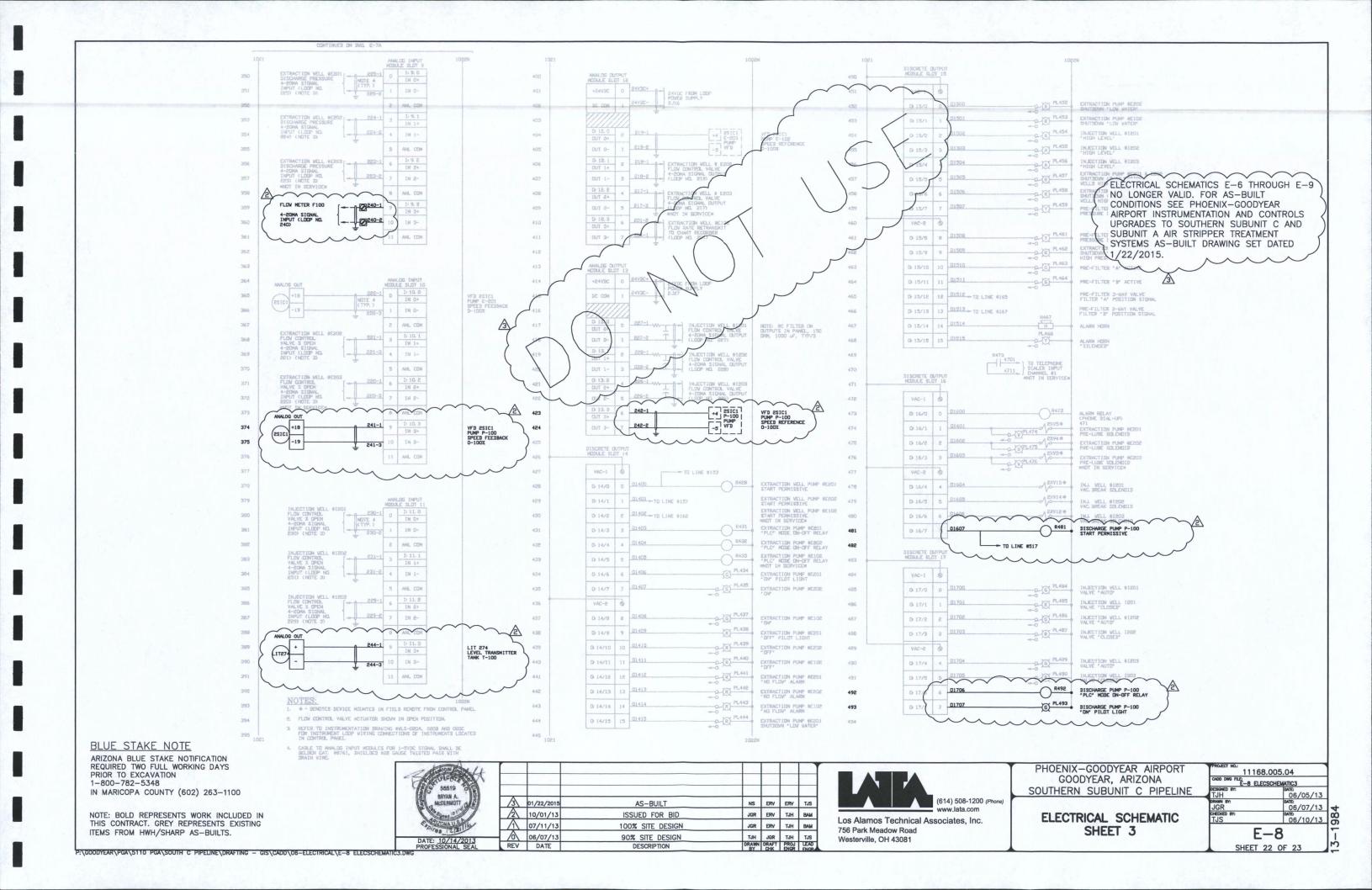
ONE LINE DIAGRAM AND ELECTRICAL DETAILS

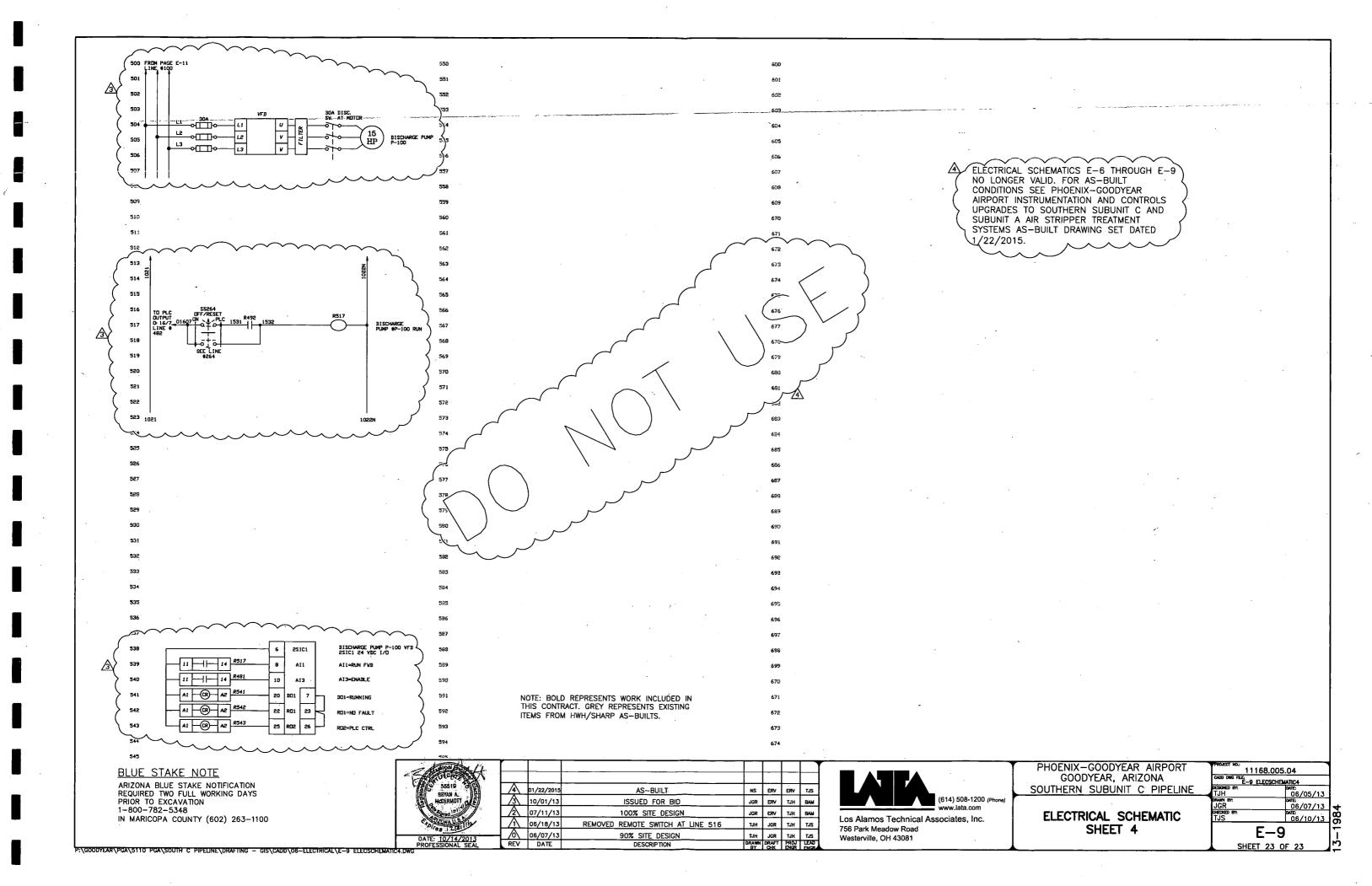
PROJECT NO.: 11168	.005.04
CADD DWG FILE: E-5 ONE LINE DIAGR	RAM AND ELEC DETAIL
DESIGNED BY:	DATE:
TJH	06/05/13
DRAWN BY:	DATE:
JGR	06/07/13
CHECKED BY:	DATE:
TJS	06/10/13

SHEET 19 OF 23









**APPENDIX B** 

**Well Permit** 



Arizona Department of Water Resources Information Management Unit P.O. Box 33589 Phoenix, Arizona 85067-3589 (602) 771-8627 • (800) 352-8488 www.azwater.gov

PLEASE PRINT CLEARLY USING BLACK OR BLUE INK.

Well Driller Report and Well Log

MAY 1 5 2014

THIS REPORT MUST BE FILED WITHIN 30 DAYS OF COMPLETING THE WELL.

FILE NUMBER

B (01-01) 09CAB

WELL REGISTRATION NUMBER

55 - 223087

PERMIT NUMBER (IF ISSUED)

			T-223	087								
SECTION 1. DRILLING AUTHORIZAT	ION		4.7									
Drilling Firm	200		1975 C			The section of	1000					
NAME		DWR LICENS	SE NUMBER									
YELLOW JACKET DRIL	LING LLC	78										
2	,	TELEPHONE	NUMBER									
PO BOX 801		602-453-3252										
CITY/STATE/ZIP		FAX	<del></del>									
GILBERT, AZ 85299-08	01	4.										
SECTION 2. REGISTRY INFORMATIO	)N			4.4								
Well Owner	66.07	Location	of Well				100					
FULL NAME OF COMPANY, ORGANIZATION, OR INDI	VIDUAL	WELL LOCA	TION ADDRES	S (IF ANY)								
		C 0	بالمالم	1	1	2 6						
Goodyear Tire & Rubber Company				SECTION	100 ACRE	40 ACRE	MEDY AZ					
MAILING ADDRESS		TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	W ACRE					
200 INNOVATION WAY		1N	1w	09	С	A	B					
OTY ( OTATE ( 7/D CODE	LATITUDE			1/4 LONGITUDE	1/4	1/4						
CITY/STATE/ZIP CODE		]	2	ا م		22	09					
AKRON, OH 44316		33 .	H .	98 "N	119 .	` !	VV					
	<u></u>	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds					
CONTACT PERSON NAME AND TITLE JEFFREY SUSSMAN		1		NGITUDE (CH								
TELEPHONE NUMBER FAX	14.000-14.00	LAND SURF	ACE ELEVATIO	図 *GPS: Su ON AT WELL	rvey-Grade							
330-796-0578		Feet Above Sea Level										
WELL NAME (e.g., MW-1, PZ-3, Lot 25 Well, Smith We	I, etc.)	METHOD OF ELEVATION (CHECK ONE)										
!		*GPS: Hand-Held										
		*GEOGRAPHIC COORDINATE DATUM (CHECK ONE)										
	·	MAD-83 M Other (please specify):										
		COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK MAP PARCE										
	•	Mari	cvuv	500	0							
SECTIONS WELL CONSTRUCTION	DETAILS	11.4001			10		10-0					
Drill Method	Method of Well Dev	elopment *		Method	of Sealing	at Reducti	ion Points					
CHECK ALL THAT APPLY	CHECK ALL THAT APPLY		7 307 3 30 30 10 10 10 10 10 10 10 10 10 10 10 10 10	CHECK C	NE							
	>∞ Airlift			1.	≥ None							
■ Bored or Augered	Bail			≅ Pac			•					
	Surge Block			⊠ Sw								
≥ Dual Rotary	Surge Pump     Surge Pump     Surge Pump     Surge Pump     Surge Pump	:£.\.		≅ We		ana aifu).						
Mud Rotary		specify):										
Reverse Circulation	Occading a servicing		b and a second	Conetr	uction Date	16						
☑ Driven		Construction Dates  DATE WELL CONSTRUCTION STARTED										
☐ Jetted☐ ☐ Air Percussion / Odex Tubing	CHECK ONE  Capped				411114	,						
Other (please specify):	Pump Installed			1	ELL CONSTRU	CTION COMP	LETED					
Citici (piodoc opoony).	, amp motanou				1/24/14	1						
I state that this notice is filed in compliance is	with A D C & 45 506 on	d ie complet	a and corre	ct to the he			l helief					
SIGNATURE OF CHALIFY TO HARTY	พเม พ.ศ.ฮ. ชู 4อ-อยิ่ง สก	u is complet	c and cone	DATE	J. OI IIIY KIIO	mouye and	Donal.					
			•	5	10/14							
To hadlane			<del> </del>									

WELL REGISTRATION NUMBER
55-223087

SECTION 4. WE	LCONSTRUC	TION DESIGN (AS BUILT) (attach ad	ditional page if needed)		
Depth		100			
DEPTH OF BORING	315	Feet Below Land Surface	DEPTH OF COMPLETED WEL	310	Feet Below Land Surface

Water Level Information			
STATIC WATER LEVEL	DATE MEASURED	TIME MEASURED	IF FLOWING WELL, METHOD OF FLOW REGULATION
Feet Below Land Surface			■ Valve    ■ Other:

	Börehol	8			7.0			/ In	istalled Cas	ng		7 (4)				
	I FROM FACE	,	DEPTH SURF				MAT	ERIA	AL TYPE (T)		PE	RFO	RATI	ON	TYPE(T)	
FROM (feet)	TO (feet)	BOREHOLE DIAMETER (inches)	FROM (feet)	TO (feet)	OUTER DIAMETER (inches)	STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	SLOT SIZE IF ANY (inches)
0	30		0	90	24	y		·		ø						
20	315	18	0	210	12	p				ጾ						
			210	300	12-	4			•					À	_	.050
			300	310	17	۴				¥						
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Installed Annular Material												
DEPTH FROM		ANNULAR MATERIAL-TYPE (T)								FILTER PACK		
SURFACE				m .	끧	BENTONITE					1	
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	GROUT	CHIPS	PELLETS	IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	SAND	GRAVEL	SIZE
0	180				X	- 100 - 1						
180	300						χ					
300	205									X		#60
205	315									$ \psi $		460

55 - 223087

SECTIO DEPTH	N 5. GEO	Description	Check (T) every interval where			
DEPTH SURF FROM	то	Description				
(feet)	(feet)	Describe material, grain size, color, etc.	encountered (if known)			
0.	315	Silty sand + gravel				
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		)	,			
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#### Well Driller Report and Well Log

WELL REGISTRATION NUMBER

55 - 223087

SECTION 6. WELL SITE PLAN	A Mesar	4.4	
NAME OF WELL OWNER	COUNTY ASSESSOR'S PA	RCEL ID NUMBER	
·	BOOK	,MAP	PARCEL

- Please draw the following: (1) the boundaries of property on which the well was located; (2) the well location; (3) the locations of all septic tank systems and sewer systems on the property or within 100 feet of the well location, even if on neighboring properties; and (4) any permanent structures on the property that may aid in locating the well.
- Please indicate the distance between the well location and any septic tank system or sewer system.

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		 •				W E
						1" =ft
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	,		J			
)				1		
		(		*		

Run Date: 04/15/2014

## AZ DEPARTMENT OF WATER RESOURCES **WELL REGISTRY REPORT - WELLS55**

Well Reg.No

Location B 1.0 1.0 55 - 223087

AMA PHOENIX AMA

Registered

**GOODYEAR TIRE & RUBBER COMPANY** 

1144 E MARKET ST, DEPT 110F Name

ATTN: JEFF SUSSMAN, REMEDIATION MGR

AKRON

OH 44316

File Type NEW WELLS (INTENTS OR APPLICATIONS)

Application/Issue Date 04/11/2014

Owner OWNER

Driller No. 78

Driller Name YELLOW JACKET DRILLING SERVICES, LLC

**Driller Phone** 602-453-3252

**County MARICOPA** 

Parcel No. 500-04-018W

Intended Capacity GPM 450.00

Well Type NON-SERVICE

SubBasin WEST SALT RIVER VALLEY

Watershed AGUA FRIA RIVER

**Registered Water Uses** 

**Registered Well Uses** 

Discharge Method NO DISCHARGE METHOD LISTED

Power NO POWER CODE LISTED

Well Depth	0.00	Case Diam	0.00	Tested Cap	0.00
Pump Cap.	0.00	Case Depth	0.00	CRT	
Draw Down	0.00	Water Level	0.00	Log	
		Acres Irria	0.00	Finish (	NO CASING CODE LISTED

**Contamination Site:** YES - WITHIN 1 MILE OF A WOARF SITE

Tribe: Not in a tribal zone

**Comments CERCLA EXEMPTION** 

**Current Action** 

4/8/2014

PERMIT ISSUED (S, T, 59) 600

Action Comment: CP

**Action History** 

4/11/2014

**DRILLER & OWNER PACKETS MAILED** 555

Action Comment: CP

4/8/2014

**DRILLING AUTHORITY ISSUED** 550

Action Comment: CP

3/25/2014 867

APP/NOI REVIEW BY HYDRO/WQARF COMPLETE

Action Comment: dgc

3/6/2014

APP SENT TO HYDROLOGY FOR REVIEW 365

Action Comment:

3/5/2014

APP RCVD FOR A WELL PERMIT FOR A NEW WELL (S, T) 300

Action Comment: CP



### ARIZONA DEPARTMENT OF WATER RESOURCES

### **NON-EXEMPT WELL PERMIT**

## PURSUANT TO A.R.S. §§ 45-598 AND 45-599

COUNTY OF MARICOPA	) ss. )	1	•
This is to certify that Application N 599 for the construction of a new w construct and operate a non-exempt	ell. The Director here	eby grants authority to t	he Permittee to

## Permit Limitations

Permittee: Goodyear Tire & Rubber Company

200 Innovation Way Akron, OH 44316

Well Registration Number: 55-223087 File No. B(01-01)9CAB

Active Management Area: Phoenix

Sub-basin: West Salt River Valley

Well Location: The NW 1/4 of the NE 1/4 of the SW 1/4 of Section 09, Township 01

North, Range 01 West of the GSRB&M

Depth: 310 ft.

**PERMIT NO. T-223087** 

STATE OF ARIZONA

Casing Material: SCS

Casing Diameter: 12 inches

**PERMIT NO. T-223087** 

Maximum Pumping Capacity:

450 gallons per minute

Maximum Annual Volume:

726 acre-feet

Authorized Place of Use for

Groundwater Withdrawn:

As Authorized by CERCLA EXEMPTION

Authorized Use of Groundwater:

As Authorized by CERCLA EXEMPTION

#### **Permit Conditions**

- 1. This permit is issued pursuant to A.R.S. § 45-599 and authorizes the permittee to withdraw groundwater for the use or uses set forth in the permit. This permit does not authorize the permittee to withdraw surface water from the well. If the permittee withdraws surface water from the well in any year, the permittee shall do so only pursuant to a decreed or appropriative surface water right and shall separately report in the annual report filed pursuant to A.R.S. § 45-632 the amount of groundwater and surface water withdrawn from the well.
- 2. The permittee shall monitor withdrawals of groundwater and shall report the total amount of groundwater withdrawn on an Annual Water Withdrawal and Use Report. The first annual reporting period shall be from the date of issuance of this permit through December 31, 2014. Subsequent annual reporting periods shall be from January 1 through December 31.
- 3. The issuance of the permit does not waive any federal, state, county or local government ordinances, regulations or permits for which the facility may have to comply.

WITNESS my hand and seal of office this 8th day of April, 2014

Michael Johnson

**Assistant Director** 

Run Date: 04/11/2014

## AZ DEPARTMENT OF WATER RESOURCES **WELL REGISTRY REPORT - WELLS55**

Well Reg.No

Location B 1.0

55 - 223087

AMA PHOÈNIX AMA

Registered

**GOODYEAR TIRE & RUBBER COMPANY** 

Name

1144 E MARKET ST, DEPT 110F

ATTN: JEFF SUSSMAN, REMEDIATION MGR

**AKRON** 

OH 44316

File Type NEW WELLS (INTENTS OR APPLICATIONS)

Application/Issue Date 04/11/2014

Owner OWNER

Driller No. 78

Driller Name YELLOW JACKET DRILLING SERVICES, LLC

**Driller Phone** 602-453-3252

**County MARICOPA** 

Parcel No. 500-04-018W

Intended Capacity GPM 450.00

Well Type NON-SERVICE

SubBasin WEST SALT RIVER VALLEY

Watershed AGUA FRIA RIVER

**Registered Water Uses** 

**Registered Well Uses** 

Discharge Method NO DISCHARGE METHOD LISTED

Power NO POWER CODE LISTED

**Tested Cap** 0.00 **Case Diam** 0.00 **Well Depth** 0.00 CRT Case Depth 0.00 Pump Cap. 0.00

**Water Level** 0.00 Log **Draw Down** 0.00

> Acres Irria 0.00

Finish NO CASING CODE LISTED

**Contamination Site:** YES - WITHIN 1 MILE OF A WOARF SITE

Tribe: Not in a tribal zone

Comments

**Current Action** 

4/11/2014

**DRILLER & OWNER PACKETS MAILED** 555

Action Comment: CP

**Action History** 

4/8/2014

550

DRILLING AUTHORITY ISSUED

**Action Comment:** 

3/25/2014

867

APP/NOI REVIEW BY HYDRO/WQARF COMPLETE

**Action Comment:** 

3/6/2014 365

APP SENT TO HYDROLOGY FOR REVIEW

Action Comment: ср

3/5/2014

300

APP ROVD FOR A WELL PERMIT FOR A NEW WELL (S, T)

Action Comment:

CP

### Cynthia A. Pogue

From:

David G. Christiana

Sent:

Friday, April 11, 2014 6:58 AM

To:

Cynthia A. Poque

Subject:

Re: Goodyear 55-223087 T-223087

I can get the actual reference of US code. Yes, CERCLA is the authority I wish we had them on Poor Quality permits, but mgt said no.

Dave

Sent from my iPad

On Apr 11, 2014, at 6:45, "Cynthia A. Pogue" < capogue@azwater.gov > wrote:

I reviewed the application to verify the info. There is no IGR, Permit, Service/Irrigation withdrawal. authority.

Do I just put "CERCLA EXEMPTION" on the permit as the withdrawal authority?

From: David G. Christiana

Sent: Thursday, April 10, 2014 2:33 PM

To: Cynthia A. Pogue

Subject: Goodyear 55-223087 T-223087

Hi Cindy,

What is the status of the permit for T-223087? I have been receiving phone calls about it.

Dave

David Christiana. R.G.

Permitting and Adjudication Support Arizona Department of Water Resources 602.771.8548

April is Water Awareness Month

<image001.png>

JANICE K. BREWER Governor



MICHAEL J. LACEY

ARIZONA DEPARTMENT of WATER RESOURCES 3550 North Central Avenue, Second Floor Phoenix, Arizona 85012-2105 602:771.8500

azwater.gov

April 8, 2014

Goodyear Tire & Rubber Company 200 Innovation Way Akron, OH 44316

RE: Non-Exempt, Non-Service Area Well Permit No. T-223087

Well Registration No. 55-223087 B(01-01) 09CAB

#### Dear Permittee:

Your permit to drill and operate of the above-referenced non-exempt well is enclosed. The well owner is required to submit the enclosed Completion Report within 30 days of the installation of pump equipment. A drill card has been sent to your driller.

Pursuant to the provisions of A.R.S. § 45-604, any person withdrawing groundwater from a well is required to use a water measuring device to record rates of withdrawal in order to provide or allow the computation of an annual volume of pumpage from the well. The total volume of pumpage from the well shall be reported on your Annual Water Withdrawal and Use Report for this calendar year. Subsequent annual reporting periods shall be from January 1 through December 31.

The Department has issued the authorization to drill and operate this well pursuant to A.R.S. §§ 45-598 and 45-599 of the Groundwater Code. The legal nature of the water withdrawn from the well may be the subject of court action in the future as part of a determination of surface water rights in your area. If there are court proceedings that could affect your well, you will be notified and be given the opportunity to participate.

Under A.R.S. § 45-593, the person to whom a well is registered must notify the Department of a change in ownership, physical characteristics or any other data about the well in order to keep the well registration records current and accurate. Forms may be obtained by contacting your local AMA office or online at <a href="http://www.azwater.gov">http://www.azwater.gov</a>.

Your permit has been issued by this Department without a hearing. As such, it is an appealable agency action. You are entitled to appeal and your rights are described in the enclosed notice of right to appeal.

If you have any questions regarding your permit, please call me at 602-771-8614.

Sincerely,

Cynthia Pogue - WRS

Groundwater Permitting and Wells Section

**Enclosures** 

#### ARIZONA DEPARTMENT OF WATER RESOURCES WATER MANAGEMENT DIVISION 3550 North Central Avenue Phoenix. Arizona 85012

#### THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO.:

55-223087

PERMIT: T-223087

AUTHORIZED DRILLER: YELLOW JACKET DRILLING SERVICE

LICENSE NO.: 78

AUTHORITY TO DRILL ONE WELL INSIDE THE PHOENIX ACTIVE MANAGEMENT AREA HAS BEEN GRANTED TO:

WELL OWNER: GOODYEAR TIRE & RUBBER COMPANY, 200 INNOVATION WAY, AKRON, OH 44316

WELL IS TO BE LOCATED IN: NW 1/4 OF THE NE 1/4 OF THE SW 1/4 OF SECTION 09, TOWNSHIP 01 NORTH, RANGE 01 WEST

OF THE GSRB&M

NO. OF WELLS IN THIS PROJECT: 1 (ONE)

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 7TH DAY OF APRIL 2015

Murulo

WATER MANAGEMENT

THE DRILLER MUST FILE LOGS OF THE WELLS WITHIN 30 DAYS OF COMPLETION OF DRILLING



#### PERMIT NO. T-223087

Maximum Pumping Capacity:

450 gallons per minute

Maximum Annual Volume:

726 acre-feet

Authorized Place of Use for Groundwater Withdrawn:

As Authorized by 56-000001.0000

Authorized Use of Groundwater:

As Authorized by 56-00000 1.0000

#### **Permit Conditions**

- This permit is issued pursuant to A.R.S. § 45-599 and authorizes the permittee to withdraw 1: groundwater for the use or uses set forth in the permit. This permit does not authorize the permittee to withdraw surface water from the well. If the permittee withdraws surface water from the well in any year, the permittee shall do so only pursuant to a decreed or appropriative surface water right and shall separately report in the annual report filed pursuant to A.R.S. § 45= 632 the amount of groundwater and surface water withdrawn from the well.
- The permittee shall monitor withdrawals of groundwater and shall report the total amount of 2. groundwater withdrawn on an Annual Water Withdrawal and Use Report. The first annual reporting period shall be from the date of issuance of this permit through December 31, 2014. Subsequent annual reporting periods shall be from January 1 through December 31.
- The issuance of the permit does not waive any federal, state, county or local government **3.** ordinances, regulations or permits for which the facility may have to comply.

WITNESS my hand and seal of office this 8th day of April, 2014

Michael Johnson

Assistant Director



### ARIZONA DEPARTMENT OF WATER RESOURCES

## NON-EXEMPT WELL PERMIT

## PURSUANT TO A.R.S. §§ 45-598 AND 45-599

PERMIT NO. T-223087	
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STATE OF ARIZONA	) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
COUNTY OF MARICOPA	) šs. )

This is to certify that Application No. T-223087 meets the requirements of A.R.S. §§ 45-598 and 45-599 for the construction of a new well. The Director hereby grants authority to the Permittee to construct and operate a non-exempt well, subject to the following limitations and conditions:

### Permit Limitations.

Permittee: Goodyear Tire & Rubber Company

200 Innovation Way Akron, OH 44316

Well Registration Number: 55-223087

Active Management Area: Phoenix

Sub-basin: West Salt River Valley

Well Location: The NW 4 of the NE 4 of the SW 4 of Section 09, Township 01

North, Range 01 West of the GSRB&M

Kile No. B(01-01)9CAB

Depth; 310 ft.

Casing Material: SCS

Casing Diameter: 12 inches

#### IPR SUMMARY REVIEW SHEET

Prepared by C-Pogue, March 25, 2014

ZZ3087

APPLICANT: APPLICATION TYPE:

Goodyear Tire & Rubber Company T-223087 -Well 55-223098 B(01-01) 09CAB Drill/Operate Non-Exempt, Non-Service Area

Well A.R.S. § 45-599

Summary of the facts: Goodyear Tire & Rubber Company filed an Application for a Permit to Drill/Operate a Non-Exempt Well on March 5, 2014. The claim of entitlement to withdraw groundwater is based upon CERCLA Exemption, Extraction Well for Remediation. The proposed annual volume requested is 726 acre-feet with a pumping capacity of 450 gpm. The location is owned by Kohnen Investments LLP and a signed lease agreement between Kohnen Investments LLP and Goodyear Tire & Rubber Co. for the well/land is attached.

Water Quality/Hydrology review indicates that since the withdrawal are for remediation, a well impact analysis is not necessary. The proposed well does not lie within a known area of regional land subsidence. The proposed well is within the buffer of the Phoenix Greater Airport South CERCLA site, administered by the EPA. The proposed well is not within a mile of any FRSs. Consulatin with the Maricopa County Flood Control District is not necessary. Water Quality/Hydrology supports the issuance of this permit.

#### Recommendations:

Request approval of application T223087 to permit well 55-223098 B(01-01) 09CAB as a non-exempt, non-service area well with the annual pumping volume of 726 acre-feet with a pumping capacity of 450 gpm pursuant of A.R.S. § 45-599.

IPR C	Smmittee Recommen	ndations:			
	Approved		1		
٤	Denied		( )		
~	Other (explanation)	i Dan en seus en	South Commence	and the state of t	A.

PR Chairperson

Date



## Menorandum

To:

Cindy Pogue, Groundwater Permitting and Wells

From:

David Christiana, Permitting and Adjudication Support

CC:

Jeff Tannler, Statewide AMA Director

Date:

03/25/2014

Re:

Application for a Permit to Drill or Operate a Non-Exempt Well

T-223087 B(1-1)9CAB

Goodyear Tire & Rubber Company

Comments: I have reviewed the above-referenced application for a permit to drill and operate a non-exempt well in the Phoenix AMA for well impacts, potential regional subsidence, water quality issues, well construction, and proximity to a Maricopa County Flood Retention Structure (FRS). The applicant proposes to construct a well and withdraw 726 acre-feet pursuant to a remediation at the Phoenix Goodyear Airport South CERCLA site. The applicant claims a CERCLA exemption from permitting requirements. This permit will effectively be in lieu of a poor quality groundwater withdrawal permit.

#### **Well Impacts**

Since the withdrawals are for remediation, a well impact analysis is not necessary.

#### **Potential Regional Subsidence**

The proposed well does not lie within a known area of regional land subsidence. No additional subsidence monitoring is necessary.

#### **Water Quality**

The proposed well is within the buffer of the Phoenix Goodyear Airport South CERCLA site, administered by the US Environmental Protection Agency. No other known water quality issues exist.



## Memorandum

#### **Well Construction**

The proposed well will be drilled to 310 feet below land surface, with 12 inch blank casing to 210 feet, stainless steel louvered screen from 210 to 310 feet. A surface seal will extend to 20 feet. The preliminary well design figure included with the application indicates the proposed construction meets minimum well construction requirements. No special well construction is necessary.

#### **Proximity to Flood Retention Structures**

The proposed well is not within a mile of any FRSs. Consultation with the Maricopa County Flood Control District is not necessary.

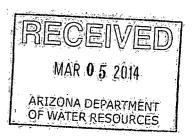
#### Conclusion

I support issuing this permit to drill and operate a non-exempt well at the proposed location, with a withdrawal volume of 726 acre-feet per year.

#### STATE OF ARIZONA DEPARTMENT OF WATER RESOURCES WATER MANAGEMENT DIVISION

MAIL TO: P.O. BOX 36020, PHOENIX, ARIZONA 85067-6020 3550 North Central Avenue, Phoenix, Arizona 85012

Phone (602) 771-8500 • Fax (602) 771-8690



## APPLICATION FOR A PERMIT TO DRILL OR OPERATE A NON-EXEMPT WELL WITHIN AN ACTIVE MANAGEMENT AREA PURSUANT TO A.R.S. § 45-599

#### **INSTRUCTIONS:**

1. This application should be used to obtain a permit to:

•	(a) Drill a non-exempt well in conjunction with a new or exist Grandfathered Right, a Service Area Right, or an Irrigation (b) Convert an existing well to a non-exempt well, or increase	sting General Industrial Use Permit Application, a Certificate on District Right.
	2. Complete all appropriate items on this application, sign in the all 3589 or hand deliver to 3550 North Central Avenue, Phoenix,	ppropriate place and mail to P.O. Box 33589, Phoenix, Arizona 8500 Arizona 85012
e,	3. Pursuant to A.R.S. § 45-599 and A.A.C. R.12-15-104, the fee fo	of this application is \$150.00 and the permit fee is \$30.00.
		Apm: 4-4-
,	GENERAL DATA:	Application No. 1223087
	1. Applicant The Goodyear Tire & Rubber Company	Application No. <u>7223087</u> Registration No. <u>55-223087</u>
	Mailing Address 200 Innovation Way	File No. BCI-1) 9 CAB
	Akron OH 44316	Date Received 3/5/14
	Akron OH 44316 City State Zip Code	AMA PHX
	Contact Person Jeffrey Sussman, Remediation Manager	W/S Agya FRIA ROSEW SRV
	Telephone Number <u>330-796-0578</u>	the second secon
	2. Name of Land Owner Kohnen Investments, LLP, George Reeve	2B. Parcel No. 500-04-018W
	Mailing Address 4250 East Claremont	2C. Public Water System ID # N/A
	Paradisė Valley AZ 852	
	City State Zi	p Telephone Number
	3. Applicant is: (a) Owner (X) Lessee	
	4. Proposed well is: A New well D increase in Permitted Maximum Annua	TVolume for Existing Well D Replacement well in a new location.
K	5. Claim of entitlement to withdraw groundwater is based upon:	
Ĺ	☐ Certificate of Grandfathered Right No: ☐ General Industrial Use Permit No. 59: ☐ Service Area Right No: ☐ Irrigation District Right No:  **OTHER - CERCLA EXEMPTION, EXTRACTION WEL	<del>na na n</del>
	6. The principal use(s) of groundwater will be (be specific) impacted	d groundwater will be extracted for treatment
		ion 09 Township 1N N/S Range 1W E/W
	8. Position location of the well: Latitude 33. ° 26. 28	1. "N Longitude 1#2 ° 22. ' 09. "W
	9. Design Pump Capacity 450 gpm	Depth 310 feet
		ng LCS casing SS screen
	10. Proposed annual volume of water \$\frac{-726}{}	acre feet
	11. Well is located in the West Salt River Valley subbas	··
	11. Well is located in the West Sait Kivet walley shoots	m of the antique my and a series arming enemia nem.

12.	Approximate date construction will begin: MONTH March YEAR 2014
	Estimated time to complete new well 3 weeks
13.	Legal description of the land where the groundwater will be used: N/A - extraction well for remediation
14.	Is the proposed well site within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility or storage area of hazardous materials?   Yes No (if yes, a request for a variance must accompany this application pursuant to R12-15-820.)
15.	Driller's Name Yellow Jacket Drilling Services DWR License No: 78 ROC License Category C-53 & A-4
	Mailing Address:         PO Box 801         Gilbert         AZ         85299-0801         602-453-3252           Street         City         State         Zip         Telephone Number
	Street City State Zip Telephone Number
16.	Attach a Well Construction Supplement, DWR form 55-90, and include a detailed construction diagram as indicated on the form.
111.	FOR SERVICE AREA WELLS AND IRRIGATION DISTRICT WELLS ONLY:
17.	. Is the proposed well located in your service area?   Yes   No
18.	. Will groundwater withdrawn be used in your service area?   Yes No (If answer is no, attach explanation.)
IV.	FOR REPLACEMENT WELL IN NEW LOCATION ONLY:
	. Registration number of original well 55-
20	. Location of the original well:/4/4/4 Section TownshipN/S RangeE/W
21	. Distance between original well and proposed replacement well
22	. When determining impacts under the Department's well spacing rules, the director will take into account the collective efforts of reducing or terminating withdrawals from the well being replaced combined with the proposed withdrawals from the replacement well if the applicant submits a hydrological study demonstrating those collective effects to the satisfaction of the director.  Will a hydrological study be submitted?   Yes   No
	Will the original well be abandoned if applicant receives a permit to drill a replacement well?   Yes No.  (If yes, please submit a completed Notice of Intent to Abandon a Well along with this application.)  If no, explain the planned use of the original well
V.	FOR INCREASE IN PERMITTED MAXIMUM VOLUME FOR EXISTING WELL ONLY:
24	Registration number of the existing well 55 Present pump design capacity gallons per minute. Present permitted volumeacre-feet per year.
25	Now populited volume will be some feet per year
26	5. Will the well be modified or deepened? Tyes Tho [Pursuant to R12-15-801(29)] If yes, Attach a Well Construction Supplement, DWR form 55-90, and include a detailed construction diagram as indicated on the form.
27	7. The existing well has previously been used in conjunction with or for the following:
It is the	s understood that the permit, if granted, will be in accordance with the Groundwater Management Act (Title 45, Chapter 2), and the rules adopted reunder. The permittee will be bound by the provisions of such law and the provisions of the permit issued.
Ţ	we), Dennis McGavis hereby affirm that all information provided in this application is true and correct to the best of my/our (print name) knowledge and belief.
Sig	gnature of Applicant Date 3/4/14
	gnature of Land Owner (if applicable) Date

10.	Is the proposed wellsite within 10 hazardous waste facility, storage tank?Yes _xNo	0 feet of a septic tank syste e area of hazardous materi	m, sewage dispos ial, or petroleum s	al area, landfill, torage area or
11,	Is this well to monitor existing co	ontamination? <u>x</u> Yes	No	. *
	Potential contamination?Y	esNo If yes, please	e provide explanat	ion:
12.	Name of Consulting firm, if any:	Haley & Aldrich		
	400 E Van Buren St, Ste 545	Phoenix	AZ	85004
	Address	City	AZ State	Zip
,	Contact Person: Pejman Eshraghi	Teleph	none Number: 602-	760-2420
13.	Drilling firm Yellow Jacket Drilling Ser	rvices		
	DWR License Number: 78	ROC Licen	se Category: <u>C-53</u>	& A-4
14.	Special construction standards,	if any, required pursuant to	A.A.C. R12-15-82	1:
I (w	e), <u>Dennis McGavis</u> (print name)	hereby affirm that all info application is true al knowledge and belie	nd correct to the b	in this est of my/our
Sig	gnature of Applicant Denus	5. Mc Flaver	Date <i>3  4/</i>	1.4

## ARIZONA DEPARTMENT OF WATER RESOURCES

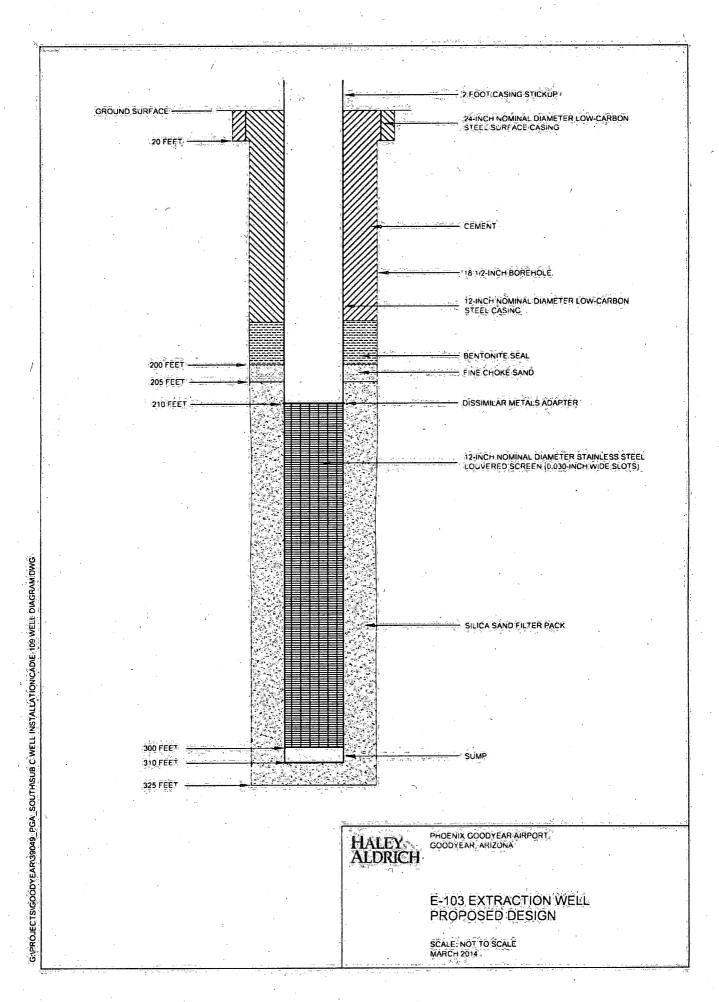
## WATER MANAGEMENT DIVISION

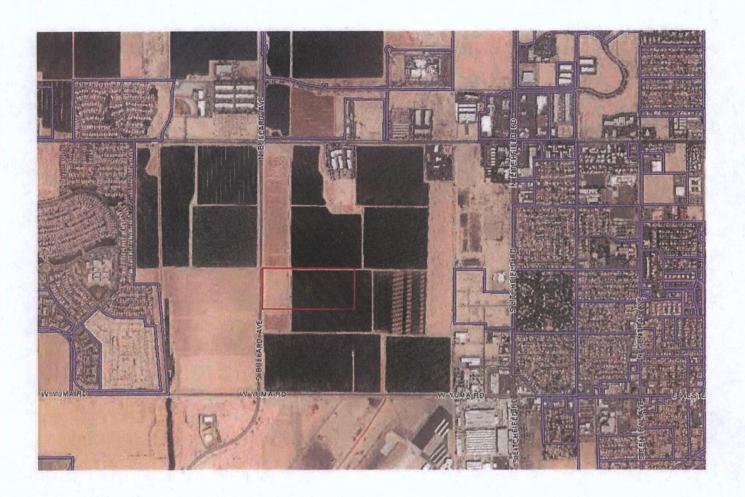
3550 North Central Avenue, Phoenix, Arizona 85012 Phone (602) 771-8585 Fax (602) 771-8688

## WELL CONSTRUCTION SUPPLEMENT (form DWR 55-90)

Well Registration Number 55- 22 3087

	·
1.	Well Location:
	NW % of the NE % of the SW %, Sec. 9 Township IN Range IW .
2.	Position Location of the Well:
•	Latitude 33 26 28 U Longitude 112 2 22 U 09 U
	Datum: NAD 83 • NAD 27 • Other:
<b>3</b> .	County Maricopa
4.	Date construction to start:
5.	Time period well will remain in use: 20 years.
6.	Is pump equipment to be installed? Y If so, design pump capacity: _500GPM.
7.	Well construction plan:
• .5	a. Drilling method (mud rotary, hollow-stem auger, etc.) dual foliary
	b. Borehole diameters 18 1/2 inches from 0 feet to 325 feet.
	inches fromfeet tofeet.
	c. Casing materials 12-inch nominal diameter SS touver screen, 12-inch nominal diameter LCS casing
	d. Method of well development (bail, air lift, surge, etc.) bail, surge, pump
	udumbar kan 1922 a sa kan sa kan sa kan da sa kan sa kan sa kan sa kan sa kan 🚣
8.	Include a detailed construction diagram of the proposed well design. The diagram should verify consistency with minimum construction requirements specified in the Department's well construction rules found in Arizona Administrative Code (A.A.C.) R12-15-801 et seq. Specifically, the diagram should include borehole diameters; casing materials and diameters.
	perforation intervals; the expected water level; depth and thickness of the surface seal proposed grouting materials; and the length that the surface or conductor casing will extend above grade, or vault details, if specified.
	Pursuant to Arizona Revised Statutes (A.R.S.) § 45-594.B, all well construction, replacement deepening and abandonment operations shall comply with the rules adopted pursuant to this section. Therefore, any existing well that is deepened or modified must be brought into compliance with minimum well construction standards specified above, if not already in compliance.
ý.	Proposed materials and method of abandonment if well is to be abandoned after project is completed (Minimum requirements per A.A.C. R12-15-816):





# 500-04-018-W

#### KOHNEN INVESTMENTS LLP

No address

Parcel Type: Agricultural

**Property Information** 

MCR #:
Address:

N/A N/A

Latitude/Longitude:

Description:

POR SW4 SEC 9 DAF COM SW COR SD SEC TH E 33F TH N 1790.43F TO POB TH N 847.58F TH E 1939.54F TH S 846.01F

TH W 1941.36F TO POB (P/F 04-0587553) EX TH W 32F

TH/OF (P/F 08-0685570)

Lot Size (Sq Ft):

1,615,840 91N1W

Section, Township, Range: Market Area/Neighborhood:

09/004

Subdivision:

Not Available

Lot #:

Not Available

High School District:

AGUA FRIA UNION #216

**Elementary School District:** 

AVONDALE SCHOOL DISTRICT

Local Jurisdiction:

GOODYEAR

Owner:

KOHNEN INVESTMENTS LLP

Mailing Address:

4250 E CLAREMONT, PARADISE VALLEY, AZ 85253 USA

Deed #: Deed Date: 040587553 May 26, 2004

Sale Date:

None

Sale Price:

\$0

Valuation Data

	**************************************	menicana and company over the properties of the second	an managan and an analysis of the second sec	to a trade of the coloured on the colour of the colour	ania, a mandan anda wadan adda adda na wada ania wada ania da ania ania ania ani
Tax Year:	2015	2014	2013	2012	2011
Full Cash Value:	\$30,418	\$29,676	\$29,676	\$29,676	\$29,676
Limited Property Value:	\$30,418	\$29,676	\$29,676	\$29,676	\$29,676
Legal Class:	2	2	2	2	2
Description:	AG / VACANT	AG / VACANT	AG / VACANT	AG / VACANT	AG / VACANT
		LAND / NON-PROFIT		F-7	
	R/P	R/P	R/P	R/P	R/P
Assessment Ratio:	16%	16%	16%	16%	16%
Assessed FCV:	\$0	\$4748	\$4748	\$4748	\$4748
Assessed LPV:	\$4867	\$4748	\$4748	\$4748	\$4748
Property Use Code:	41,10	4110	4110	4110	4110
PU Description:	AGRICULTURAL	AGRICULTURAL	AGRICULTURAL	AGRICULTURAL	AGRICULTURAL
Tax Area Code:	440803	440803	440803	440803	440803

#### When Recorded Return To:

Fennemore Craig, P.C. 2394 East Camelback Road Suite 600 Phoenix, AZ 85016-3429 Attn: Margaret R. Gallogly

#### MEMORANDUM OF WELL SITE LEASE AGREEMENT

This Memorandum of Well Site Lease Agreement is made and entered into this <u>Februar</u>, 21, 2014, by and between Kohnen Investments, L.L.P., an Arizona limited liability partnership ("Lessor") and The Goodyear Tire & Rubber Company, an Ohio corporation ("Lessee").

Lessor and Lessee have entered into that certain Well Site Lease Agreement dated February, 2014 ("Lease"), whereby Lessee, in exchange for certain performance, has been granted certain rights regarding the drilling, construction, installation, operation, maintenance, repair and replacement of a water production well and related equipment, improvements and appurtenances at that certain real property described in the attached Exhibit A ("Well Site").

Lessor and Lessee desire to give actual and constructive notice to all persons dealing with the Well Site that Lessee has certain rights with respect to the Well Site pursuant to the terms of the Lease. The Lease shall continue in full force and effect until the Lease is terminated as provided in the Lease.

A copy of the Lease is in the possession of both Lessor and Lessee. In the event of any conflict between this Memorandum of Lease and the Lease, the Lease shall govern and control.

[SIGNATURES APPEAR ON FOLLOWING PAGES]

IN WITNESS WHEREOF, the parties have executed this Memorandum of Lease as of the date first set forth above.

#### LESSOR:

KOHNEN INVESTMENTS, L.L.P., an Arizona limited liability partnership

By: THE KOHNEN FAMILY TRUST U/T/A

Notary Public

dated October 1, 1979, as amended

Its: General Partner

STATE OF ARIZONA

Maricopa County

My Commission Expires

MAY 31, 2016

MAY 31, 2016

MAY 31, 2016

Arizona

State of The Kohnen Family Trust

U/T/A dated October 1, 1979, as amended, the General Partner of KOHNEN INVESTMENTS,

L.L.P., an Arizona limited liability partnership, who executed the foregoing on behalf of the partnership.

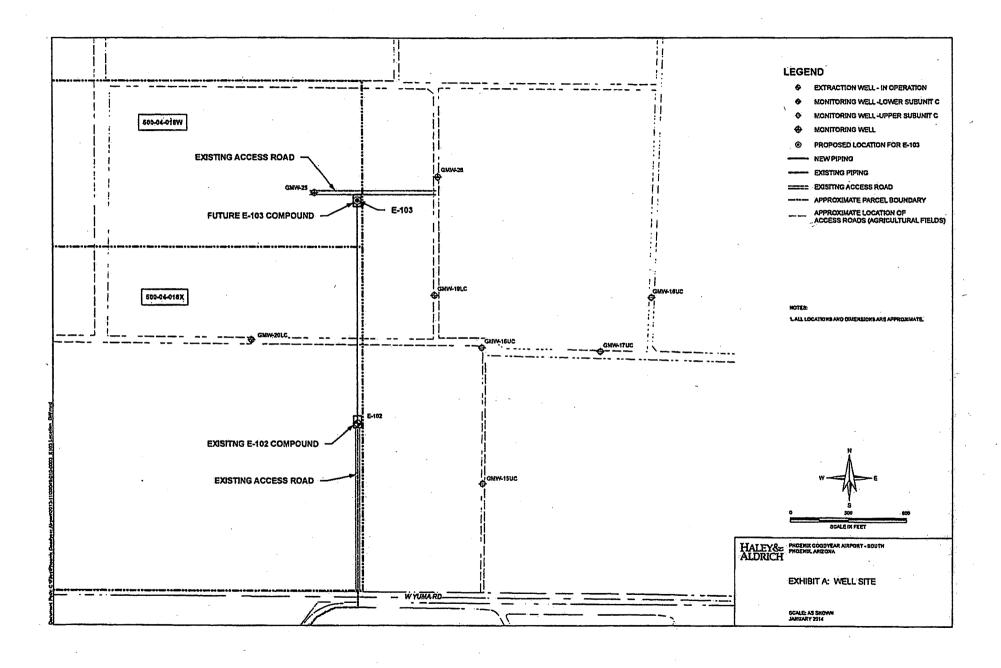
My Commission Expires:

15. 3, 21 16

## LESSEE:

	THE GOODYEAR TIRE & RUBBER COMPANY, an Ohio corporation
	an Onlocorporation
· · · · · · · · · · · · · · · · · · ·	By: Droll E. Ston Con Its: 12. P. Louis P. Jones
· .	Attest/Witness:
	Its: Assistant Secretary
STATE OF OHIO )	
County of Summit )	
5.1. 2014. by i) C.	acknowledged before me this $\frac{H^{11}}{2}$ day of
acknowledged themselves to be the Vice GOODYEAR TIRE & RUBBER COMP	President and Assistant Secretary, respectively, of THE ANY, an Ohio corporation, who executed the foregoing
on behalf of the company.	2 Cyr
	Notary Public
and the second case of the second case of	
My Commission Expires: STEVEN C. BORDENXIRCHER, Attorney at Law	
Notary Public, State of Ohio	
Section 147.03 O.R.C.	

## EXHIBIT A



#### When Recorded Return To:

Fennemore Craig, P.C. 2394 East Camelback Road Suite 600 Phoenix, AZ 85016-3429 Attn: Margaret R. Gallogly

#### **EASEMENT**

This Easement is made and entered as of this 2f day of f day of f day of f and between Kohnen Investments, L.L.P., an Arizona limited liability partnership ("Grantor") and The Goodyear Tire & Rubber Company, an Ohio corporation ("Grantee").

- 1. <u>Grant of Easement.</u> FOR GOOD AND VALUABLE CONSIDERATION, the receipt and sufficiency of which is acknowledged, Grantor hereby grants and conveys to Grantee a perpetual non-exclusive easement on, over, across, under and through the property described on Exhibit "1" attached (the "Easement Area") for the following purposes:
- (a) the installation, construction, operation, maintenance, repair and replacement of an underground water pipeline and related equipment, improvements and appurtenances as necessary or desirable for the delivery of water from that production well (the "Well") to be installed by Grantee at that parcel of real property described in Exhibit "2" attached (the "Well Site");
- (b) the installation, construction, operation, maintenance, repair and replacement of underground electric and telephone lines and related equipment, improvements and appurtenances as necessary or desirable for the provision of electric and telephone service to the Well and the Well Site (the water pipeline, electric lines and telephone lines and related equipment, improvements and appurtenances being collectively referred to as the "Utility Lines");
- (c) the removal, excavation, disturbance or destruction of plants, dirt and other materials from the Easement Area, including farm crops in the ground on the date of this Easement, in connection with the installation, construction, operation, maintenance, repair and replacement of the Utility Lines or any of such Utility Lines;
- (d) vehicular and pedestrian ingress and egress as necessary to take any or all of the actions described in subparagraphs 1(a) or 1(b); and
  - (e) vehicular and pedestrian ingress and egress to and from the Well Site.

Grantee shall determine in its sole discretion the type and size of the Utility Lines and all components thereof, subject to paragraph 3 below.

2. <u>Termination</u>. This Easement shall remain in full force and effect from the date hereof until the termination of that Well Site Lease Agreement dated as of the date of this Easement between Grantor, as Lessor, and Grantee, as Lessee (the "Lease"). This Easement

shall automatically terminate upon the termination of the Lease without any action by either Grantor or Grantee. Immediately following the termination of this Easement, Grantee shall record an instrument reasonably satisfactory to Grantor acknowledging the termination of this Easement.

- Size and Use of Telephone Conduit. Pursuant to that Agreement Regarding Well 3. dated as of the date of this Easement between Grantor and Grantee (the "Agreement Regarding Well"), Grantee shall install a single conduit for telephone wires in the Easement Area having a diameter sufficient to accommodate a minimum of fifty (50) pairs of telephone wires. Grantor and Grantee acknowledge that telephone service to the Well Site will require no more than four (4) pairs of telephone wire. Grantee consents that Grantor may use the excess capacity in the telephone conduit installed by Grantee to install telephone wires to serve the Grantor's property described on attached Exhibit "3" ("Grantor's Property"); provided, however, (i) Grantor shall use due care, and shall cause its contractors, subcontractors, agents and employees to use due care, in installing telephone wires in the conduit so as not to interfere with Grantor's use of the telephone wires in the conduit that provide telephone service to the Well Site, and (ii) in the event that telephone service to the Well Site is interrupted or disrupted and such interruption or disruption is caused by the installation, repair or maintenance of telephone wires in the conduit that provide telephone service to the Grantor's Property, or any part thereof, Grantor shall immediately restore telephone service to the Well Site, and shall reimburse Grantee upon demand for any costs and expenses incurred by Grantee in restoring telephone service to the Well Site. Grantor acknowledges that, upon installation of the conduit for telephone wire to be installed by Grantee under the Agreement Regarding Well, such telephone conduit shall not contain any telephone wires, except for the four (4) pairs necessary to provide telephone service to the Well Site. Grantee shall have no liability or obligation to install telephone wires in said conduit for the purpose of providing telephone service to the Grantor's Property.
- 4. <u>Buildings, Vegetation</u>. Grantor shall not erect or construct or permit to be erected or constructed any building or other structure on, upon, within or beneath the Easement Area. Grantor shall not interfere with Grantee's right of access to the Easement Area or to the Well Site. Grantor shall not excavate within the Easement Area without the prior written consent of Grantee, which shall not be unreasonably withheld, delayed or denied. Grantee may trim or remove any trees or shrubs that, in the judgment of the Grantee, may interfere with the Grantee's exercise of its rights under this Easement.
- 5. No Farming Activity. During the term of this Easement, Grantor shall not plant any crops, or permit others to plant crops, in the Easement Area, or use, or permit the use of, the Easement Area for any other farming activities. Notwithstanding the foregoing, the tenant under the farm lease that includes the Easement Area may cultivate and harvest any crops in the ground on the date of this Easement to the extent such crops have not been disturbed or destroyed by Grantee exercising its rights under this Easement.
- 6. <u>Costs</u>; <u>Mechanic's Liens</u>. Grantee will promptly pay all costs and expenses related to constructing, installing, operating, maintaining, repairing, or replacing the Utilities Lines or any of such Utility Lines. Grantee will not permit any mechanics', materialmen's, contractors' or other liens to be placed against the Easement Area as a result of the construction, installation, operation, maintenance, repair or replacement of the Utility Lines or any of such

Utility Lines. Grantee will cause the removal of any such lien, without any cost or expense to Grantor, and shall indemnify, protect, and hold harmless Grantor from and against any and all claims, liabilities, losses, judgments, fees, penalties, damages, actions, suits, costs and expenses suffered or incurred by Grantor, arising directly or indirectly out of Grantee's failure to promptly pay all such costs or to remove any such lien as provided in this paragraph.

- 7. <u>Debris Removal</u>; <u>Maintenance</u>. Upon completion of the Utility Lines in the Easement Area, Grantee shall remove or cause to be removed all equipment used and all debris and refuse resulting from the construction of the Utility Lines and shall leave the Easement Area clear of debris and in a reasonably level condition. Thereafter, Grantee shall maintain the Easement Area clear of debris and in a reasonably level condition at Grantee's sole cost and expense. Grantor shall have no obligation to improve the surface of the Easement Area in any manner whatsoever by, for example, landscaping or paving the Easement Area.
- 8. <u>Compliance With Laws</u>. Grantee shall comply with any and all laws applicable to the construction, installation, operation, maintenance, repair or replacement of the Utility Lines or any of such Utility Lines. Grantee shall obtain any and all permits and other government approvals required to undertake any of those actions. All companies retained by Grantee for the construction, installation, operation, maintenance, repair or replacement of the Utility Lines or any of such Utility Lines will hold all licenses required for such work by the State of Arizona, if any.
- 9. <u>Indemnity</u>. Grantee shall indemnify, protect and hold Grantor harmless from and against all claims, liabilities, losses, judgments, fees, penalties, damages, actions, suits, costs, expenses which Grantor may suffer or incur by reason of Grantee's breach of or default under this Easement, or by reason of the acts or omissions of Grantee or its contractors, employees, agents, invitees or licensees on or about the Easement Area.

#### 10. Events of Default.

- (a) Events of Default by Grantee. The occurrence of any of the following shall constitute an event of default by Grantee:
- (i) Grantee fails to perform any of its obligations under the Agreement Regarding Well, and does not cure said failure within the applicable time period specified in the Agreement Regarding Well; or
- (ii) Grantee fails to perform any of its obligations under the Lease and does not cure said failure within the applicable time period specified in the Lease; or
- (iii) Grantee fails to perform any of its obligations under this Easement and does not fully cure such failure within (i) ten (10) business days after receipt of written notice to Grantee from Grantor, if such failure can be cured by the payment of money, or (ii) thirty (30) days after receipt of written notice to Grantee from Grantor, if such failure cannot be cured by the payment of money, or, if such failure cannot be reasonably cured within the thirty (30)-day period, Grantee does not, within such thirty (30)-day period, commence, and thereafter diligently proceed with, all actions necessary to cure such failure as soon as reasonably possible.

- (b) <u>Default by Grantor</u>. Grantor shall be in default under this Easement if Grantor fails to perform any of its obligations under this Easement and does not fully cure such failure within (i) ten (10) business days after receipt of written notice to Grantor from Grantee, if such failure can be cured by the payment of money, or (ii) thirty (30) days after written notice to Grantor, if such failure cannot be cured by the payment of money, or, if such failure cannot reasonably be cured within the thirty (30)-day period, Grantor does not, within such thirty (30)-day period, commence, and thereafter diligently proceed with, all actions necessary to cure such failure as soon as reasonably possible.
- (c) <u>Remedies</u>. If Grantor or Grantee fails to perform an obligation under this Easement and does not cure such failure within the applicable cure period, the non-defaulting party may pursue all available rights and remedies under applicable law.
- 11. <u>Title</u>. Grantor hereby covenants that it is lawfully seized and possessed of the Easement Area; that it has a good and lawful right to grant an easement over the Easement Area; and that it warrants the title and quiet possession thereto against the lawful claim of all persons claiming by or through Grantor, subject to all matters of record.

#### 12. General.

(a) For purposes of providing notice or other communications under this Easement, the parties' addresses are:

#### Grantor:

Kohnen Investments, L.L.P. c/o Robert E. Kohnen 4250 East Claremont Paradise Valley, AZ 85253

With a copy to:

Jeff Schneidman
Plattner, Schneidman, Schneider, Jeffries & Plattner P.C.
9141 E. Hidden Spur Trail
Scottsdale, AZ 85255

#### Grantee:

The Goodyear Tire & Rubber Company 200 Innovation Way Akron, OH 44316-0001 Attn: Manager, Global Remediation

With a copy to:

The Goodyear Tire & Rubber Company

200 Innovation Way Akron, OH 44316-0001 Attn: Corporate Secretary

All notices and other communications hereunder will be in writing and will be given by hand-delivery, by overnight express delivery or by United States Postal Service delivery, certified mail, return receipt requested. Notices and communications shall be deemed to be delivered and received on the date of hand-delivery, or one (1) business day after deposit with an overnight express delivery service, or five (5) business days after deposit with the United States Postal Service. A party may change its address by providing written notice of the new address to the other party as set forth herein. The term "business day" used in this Easement means any day other than a Saturday, a Sunday, a national holiday or a legal holiday in the State of Arizona.

- (b) Unless otherwise provided in this Easement, all time periods shall be in calendar days, but in all instances the first day a notice or communication shall be deemed given and the last day for performance shall be the next business day if a calendar day is not a business day.
- (c) This Easement shall be governed by and construed under and enforced in accordance with the laws of the State of Arizona. The parties consent to the jurisdiction of the State of Arizona and agree that the venue of any dispute shall be in Maricopa County. If either party commences an action against the other to interpret or enforce any of the terms of this Easement or because of the breach by the other party of any of the terms of this Easement, the losing party shall pay to the prevailing party reasonable attorneys' fees and court costs, whether or not the action is prosecuted to a final judgment.
- (d) This Easement may be executed in counterparts, each of which shall be deemed an original, and all such counterparts shall constitute one and the same instrument.
- (e) In the event of any conflict between the terms of this Easement and the Agreement Regarding Well, the terms of the Agreement Regarding Well shall control.
- 13. <u>Binding Effect</u>. This Easement runs with the land, is a burden upon the Easement Area, and is binding upon Grantor, its successors and assigns, and all persons having or acquiring any estate or interest in the Easement Area, or any part thereof, now or in the future. Without limiting the terms of this Easement, this Easement runs and inures to the benefit of Grantee, its successors, employees, agents, designees and assigns. Grantor acknowledges and agree that this Easement may be exercised, enjoyed and enforced by Grantee, its contractors, employees, agents, designees and assignees, including without limitation, the United States of America, the State of Arizona, and their authorized representatives, but only for the purposes set forth herein and none other.

IN WITNESS WHEREOF, the parties have executed this Easement effective as of the date first written above.

#### **GRANTOR:**

KOHNEN INVESTMENTS, L.L.P., an Arizona limited liability partnership

By:

THE KOHNEN FAMILY TRUST U/T/A

dated October 1, 1979, as amended.

Its: Gene

General Partner

By:

Its MANAGENE

STATE OF ARIZONA

) ss.

County of Minimica per

OFFICIAL SEAL
MARGIE E. NELSON
Notary Public - Arizona
MARICOPA COUNTY
My Commission Expires
MAY 31, 2016

The foregoing instrument was acknowledged before me this <u>land</u> day of <u>land</u>, 2014, by Robert E. Kohnen, the Trustee of The Kohnen Family Trust U/T/A dated October 1, 1979, as amended, the General Partner of KOHNEN INVESTMENTS, L.L.P., an Arizona limited liability partnership, who executed the foregoing in behalf of the partnership.

Notary Public

My Commission Expires

45 31- July

## GRANTEE:

THE GOODYEAR TIRE & RUBBER COMPANY, an Ohio corporation

10 m	By Drna	25. St.	Deck	•
	Its V.	Alan Brot. a	l. Harite	$d_{\gamma}$
8 CT	AT, S	/ 		خينشبسئنند پشت
	Attest Witnes	s: <i></i>		
i ka	Its on, Orline	Assistant S	ecretary	
	Thirty			

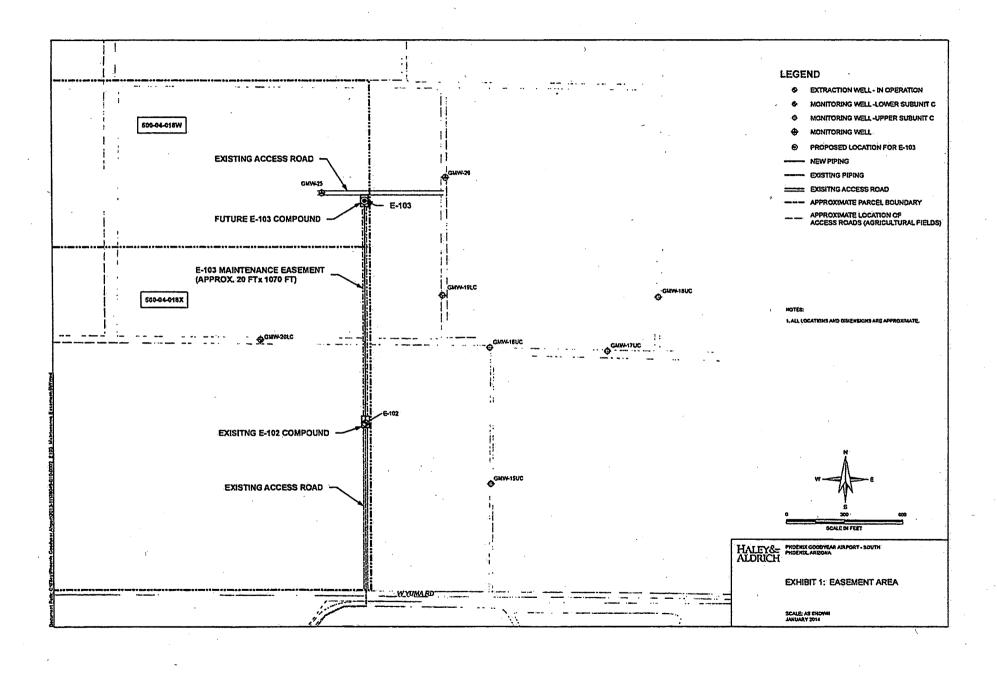
STATE OF OHIO	)					
County of Summit	) ss. )				خك	•
The foregoing acknowledged themsel GOODYEAR TIRE &	, 2014, by ves to be the	Vice President	and Assistar	, and it Secretary,	respectively ecuted the	day of who y, of THE foregoing
on behalf of the compa	4 4	The state of the s		1 U	San	lan
			Not	ary Public		

My Commission Expires:

KIM N. SCANLAN, Notary Public
Residence - Medina County
State Wide Jurisdiction, Ohio
My Commission Expires Sept. 29, 2017

The undersigned, as the tenant under that certain Farm Lease dated 12/31/12  Michigan Breet 5, hereby consents to the execution of this Easement.			
	BROOKS FARMS		
	By: MCBB		
STATE OF ARIZONA ) ss. County of \( \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \)	OFFICIAL SEAL MARGIE E. NELSON Notary Public - Arizona MARICOPA COUNTY My Commission Expires MAY 31, 2016		
The foregoing instrument was acknowled to the Farms, a Common on behalf of the	wledged before me this day of the this of Brooks		
	Notary Public )		
My Commission Expires:			
13 2 1 x 16			

## EXHIBIT 1



Printed: 3/6/2014 7:23:47 AM

## **Arizona Department of Water Resources**

3550 N Central Ave. Phoenix AZ 85012

Customer:

LINDA DOMBROWSKI 7744 N. 17TH DR PHOENIX, AZ 85021

Receipt #:

14-32472

Office:

MAIN OFFICE

Receipt Date: 03/06/2014

Sale Type:

IN PERSON

Cashier:

WRCAP

Item No.	Index	AOBJ	Description	Ref ID	Qty	Unit Price	Ext Price
67491	15245	4439-TT	Permit to drill non-exempt well in an active management area	223087	1	180.00	180.00
				•	RECEIPT	TOTAL:	180.00

Payment type: CHECK

Amount Paid: \$180.00

Check # 388

Payment Received Date: 03/06/2014

Notes: FROM TTA.

**APPENDIX C** 

Well Log

E-103 WELL INSTALLATION REPORT 39049-136 File No. Project Phoenix-Goodyear Airport South Superfund Site, Goodyear, Arizona Sheet No. 1 of The Goodyear Tire & Rubber Company Client April 11, 2014 Start Yellow Jacket Drilling Contractor April 25, 2014 Finish **Drilling Equipment and Procedures** Casing Sampler Barrel Driller Yellow Jacket Drilling H&A Rep. Kim Stemen Rig Make & Model: Foremost DR-24HD Type Bit Type: Roller Bit Elevation Inside Diameter (in.) Drill Mud: None NAVD 88 Datum Hammer Weight (lb) Casing: Dual Rotary Location See Plan Hammer Fall (in.) **Nell Diagram** ISCS Symbol Sample No. & Rec. (in.) VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION . ≅. Sample Depth (ft) Stratum Change Elev/Depth ( Depth ampler E per 6 ii (Density/consistency, color, GROUP NAME, max. particle size<sup>†</sup>, structure, odor, moisture, optional descriptions
GEOLOGIC INTERPRETATION) Мау 0 SOUTH\152 E-103 EXTRACTION WELLIPROJECT DATA\GINT\ 103 LOG.GPJ NO SAMPLE POTHOLED TO CHECK FOR UTILITIES 5 10 SW 10.0 WELL GRADED SAND WITH SILT; SILTY SAND DAMP SM. 15 SM 20 20.0 NO SAMPLE DRILLED OUT CASING GROUND AND **ESTABLISHED CIRCULATION USING ADDED WATER** 25 30 35 40 40.0 POORLY GRADED SAND DAMP SP 45 SP 45.0 POORLY GRADED SAND TO POORLY GRADED SAND WITH **GRAVEL FEW CEMENTED CALICHE FRAGMENTS** 50 SP-50.0 POORLY GRADED SAND WITH SILT; POORLY GRADED 55 SM; 55.0 SAND WITH SILT AND GRAVEL; SILTY SAND; SILTY SAND SM 60 WITH GRAVEL SW-WELL GRADED SAND WITH SILT; SILTY SAND WITH 65 SM GRAVEL 70 SM 70.0 WELL GRADED GRAVEL WITH SILT AND SAND; SILTY GW 75 G:\PROJECTS\GOODYEAR\39049\_PGA 75.0 GRAVEL WITH SAND TRACE COBBLES IN RETURNS GM: 80 SILTY SAND; SILTY SAND WITH GRAVEL GM 80.0 SILT WITH SAND; SANDY SILT 85 SM 85.0 SILTY SAND; SILTY SAND WITH GRAVEL ML 90 90.0 WELL GRADED SAND WITH GRAVEL; WELL GRADED MH 95 95.0 SAND WITH SILT AND GRAVEL; SILTY SAND WITH SM 100 GRAVEL SW 100.0 sw POORLY GRADED SAND 105 105.0 SILTY SAND WITH GRAVEL FEW PIECES OF SANDY SM E110 SM CALICHE, WEAK WATER SHOW 1.GDT 115 114.0 POORLY GRADED SAND SP SILTY SAND MOIST SM E120 115.0 SP SANDY SILT MOIST, FEW PIECES OF SANDY CALICHE E125 125.0 SM POORLY GRADED SAND MOIST, FEW PIECES OF SANDY 130 CALICHE ML135 SP 135.0 SILTY SAND MOIST, LITTLE CALICHE 140 SM 145 145.0 POORLY GRADED SAND MOIST SP 150 MH 150.0 ELASTIC SILT 155 160 ML 160.0 SILT MINOR WATER SHOW 165 Well Diagram Summary Water Level Data Sample ID Depth (ft) to: Riser Pipe Elapsed O - Open End Rod Overburden (ft) Time (hr.) Bottom Bottom Time Date Screen T - Thin Wall Tube Water Rock Cored (ft) of Casing of Hole Filter Sand U - Undisturbed Sample Cuttings Samples S - Split Spoon Sample Grout E-103 Concrete Boring No. Bentonite Seal Plasticity: N - Nonplastic L - Low M - Medium H - High Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High Field Tests: Dry Strength: N - None L - Low M - Medium H - High V - Very High

HA-TB+CORE+WELL-07-I-BOS.GLB HA-LIB07-PHOENIX OFFICE EDIT

		Y	Н	,			L INSTALLATION REPORT	Boring No. File No. 39049-13 Sheet No. 2 of	
€	lows	(in.)	⊕ <del>(</del> )	lodr	ram	га. (#)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION		
Depth (ft)	Sampler Blows per 6 in.	Sample I & Rec. (i	Sample Depth (ft)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	(Density/consistency, color, GROUP NAME, max. particle size <sup>†</sup> , structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)		
165				ML		165.0	SANDY SILT SLIGHT WATER SHOW		
170- 175-		-		ML		170.0	<u>SILT</u> MOIST		
180-				MH		180.0	ELASTIC SILT		
185- 190- 195- 200-		,		SP		185.0	POORLY GRADED SAND WET, LITTLE SANDY CALICHE		
205- 210- 215- 220-				SP		220.0	POORLY GRADED SAND; POORLY GRADED SAND WITH		,
-225 -				sw		225.0	GRAVEL WET WELL GRADED SAND WITH GRAVEL WET	1	
-230- - -235-				SP	誾	230.0	WELL GRADED SAND WITH GRAVEL WET, HEAVING	]	
240				SP		235.0	POORLY GRADED SAND WET		
245- 250-				SP		240.0	FOORLY GRADED SAND WET, FEW SANDY CALICHE FRAGMENTS, HEAVING		•
255- 260- 265-				SP		260.0	POORLY GRADED SAND WET		
270- 275-				SP		270.0	POORLY GRADED SAND WET, CALICHE		
280				SP	〗	275.0	POORLY GRADED SAND PIECES OF BEDDED SANDY CALICHE, HEAVING	ļ	
285 290 295		,		SP		280.0	POORLY GRADED SAND PIECES OF BEDDED SANDY CALICHE, HEAVING	. ,	
300- 305- 310- 315-				SP		•	POORLY GRADED SAND TRACE SANDY CALICHE, VERY POOR SAMPLES BELOW 280', HEAVING SANDS, DRILLED OVERBALANCED WITH WATER.		
320-				ML	9 . 9	320.0	SILT NO FREE WATER		
325				IVIL	,	326.0	SIET NO FREE WATER	_	
,									
			;						
$\vdash$					-			Boring No.	E-103

Boring No.

# **APPENDIX D**

**Generated Waste Documentation** 



49404 S. 99th Ave. Mobile, AZ, 85239 Ph: 602-606-1008

Ticket# 708740

Volume

Mir v v

Gross

Customer Name ERI Environmental Resoonse In Carrier OVERLY Vehicle# 217

Ticket Date 05/01/2014

001

Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route State Waste Code

Manifest Destination

Profile

436746AZ (DRILL CUTTINGS)

Generator

160-THEGOODYEARTIRE THE GOODYEAR TIRE AND RUBBER CO

Time Ιn 05/01/2014 12:56:03 05/01/2014 14:22:33

Scale Inbound Outbound

Operator sculwell sculwell

Container

Billing #

Gen EPA ID

Driver

Check#

Grid

Inbound

33760 lb Tare Net 45560 lb Tons

22.78

79320 15

Comments

Proc	luct	LD%	Qty	NOM	Rate	Tax	Amount	Origin
1 2 3 4	LiquidUnspec-Tons- FUEL-Fuel Surcharg EVF-P-Standard Env ADE-ADEQ Fee	100	22.78 22.78	Tons % % Tons				AZ AZ AZ AZ

"This is to certify that the following described merchandise was weighted and counted or measured by a public or deputy weighmaster, and when properly signed and sealed, shall be primafacie evidence of the accuracy of the weight shown prescribed by law"

"I certify that the waste I delivered to this facility on this date does not contain any regulated hazardous, toxic, radioactive waste or substances, or other non-allowable wastes. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of sach wastes, upon request from this facility."

DRIVER: PLEASE SIGN HERE

403WMFL-Butter

< >

m designed for use on elite (12	2-pitch) typewriter.)							
NON-HAZARDOUS	Generator ID Number		2. Page 1 of	3. Emergency Respon	se Phone	4. Waste T		umber
5. Generator's Name and Maili	<u> </u>	454036	1,	300-535	-5053		<u> </u>	
The Coodyear 200 Innovata Akron, CH 44 Generator's Phone: 339	Tire and Rubb on Way 316 703-0878	•		Generator's Site Address Line Goodyne 1558 J. Li Coodyneau	ar Ti.	co & So ald Road	ress)	
6. Transporter 1 Company Nan	ne		•			U.S. EPA ID	Number	
Angen Service 7. Transporter 2 Company Nan	o Company		···	~		U.S. EPA ID		1000504639
77 Handportor E Company Han	, ic.	•				U.S. EPA IU	ivornoer	
8. Designated Facility Name ar	nd Site Address					U.S. EPA ID	Number	
Buttarfield 60404 S. 99ti	Station Landfi. h avo	11						
Molodila, AZ 01 Facility's Phone: 602-2	5239					ı		
				10. Cor	ntainere	11 Tatal	12. Unit	983481813 
9. Waste Shipping Name	e and Description			No.	Type	11. Total Quantity	Wt./Vol.	
1. Non Regui	lated Material	, Liquid, (	IDW Water	•)			GAL	
	•	-		1	TT	5,000	P	
2.							,	
3.					ļ <u>.</u>	·	ļ <u>.</u>	
4.								47.504.54
13. Special Handling Instruction 1) WO# BFS43 ER Phone, Che		5053, CD Rs	equired, i	ERI# 20-145	)103-4	].		
1) WP# BESA3 ER Phone, Che  14. GENERATOR'S/OFFEROR	6746AZ M&TRO 300-535~	clare that the contents of	this consionment are	e fully and accurately de	scribed abov	e by the proper sh	ipping nam	e, and are classified, packe
1) WP# BES43 ER Phone, Che  14. GENERATOR'S/OFFEROR marked and labeled/placaro	6746AZ 200-535 - CS CERTIFICATION: I hereby de ded, and are in all respects in pro	clare that the contents of	this consignment are t according to applic	e fully and accurately de able international and n	scribed abov	re by the proper sh nmental regulation:	S.	
Phone, Che     Phone, Che     Phone, Che     Market and labeled/placaro Generator's/Offeror's Printed/Ty	6746AZ 200-535 - CS CERTIFICATION: I hereby de ded, and are in all respects in pro	clare that the contents of	this consignment are t according to applic	e fully and accurately de able international and n	scribed abov	re by the proper sh nmental regulation:	S.	
Phone, Che     Phone, Che     Phone, Che     Market and labeled/placaro Generator's/Offeror's Printed/Ty	6746AZ  200-535-  S CERTIFICATION: I hereby de ded, and are in all respects in proped Name	clare that the contents of	this consignment are t according to applic Sign	e fully and accurately de able international and nature	scribed abovers	re by the proper sh nmental regulation:	S.	
1) WP# BFS43 ER Phone, Che  14 GENERATOR'S/OFFEROR marked and labeled/placar Generator's/Offeror's Printed/Ty  15. International Shipments Transporter Signature (for expo	18745AZ  1886200 300-535-  18 CERTIFICATION: I hereby de led, and are in all respects in provinced Name  1. CUMUL  Import to U.S. orts only):	clare that the contents of	this consignment are t according to applic	a fully and accurately de able international and nature	scribed abovers	re by the proper sh nmental regulation:	S.	
1) WP# BFS43  ER Phone, Che  14 GENERATOR'S/OFFEROR marked and labeled/placar Generator's/Offeror's Printed/Ty  15. International Shipments  Transporter Signature (for expo	IS CERTIFICATION: I hereby de led, and are in all respects in provinced Name    Classification   Import to U.S. orts only): Int of Receipt of Materials	clare that the contents of	this consignment are t according to applic Sign	e fully and accurately de able international and nature S. Port of e	scribed above ational govern	re by the proper sh nmental regulation:	S.	Month Day
1) WP# BF343 BR Phone Che  14. GENERATOR'S/OFFEROR marked and labeled/placare Generator's/Offeror's Printed/Ty  15. International Shipments Transporter Signature (for exporter Acknowledgme Transporter 1 Printed/Typed Na	IS CERTIFICATION: I hereby de led, and are in all respects in provinced Name    Limport to U.S. orts only): Int of Receipt of Materials	clare that the contents of per condition for transpor	this consignment are t according to applic Sign	a fully and accurately de able international and nature	scribed above ational govern	re by the proper sh nmental regulation:	S.	Month Day
1) ITP# BESA3  ER Phone Che  14. GENERATOR'S/OFFEROR marked and labeled/placar Generator's/Offeror's Printed/Ty  15. International Shipments Transporter Signature (for expo	SCERTIFICATION: I hereby de ded, and are in all respects in proped Name    Import to U.S. orts only): nt of Receipt of Materials arme	clare that the contents of	this consignment are t according to applicate Sign	e fully and accurately de able international and nature S. Port of e	scribed above ational govern	re by the proper sh nmental regulation:	S.	Month Day
1) WOW BESA3 ER Phong Che  14. GENERATOR'S/OFFEROR marked and labeled/placard Generator's/Offeror's Printed/Ty  15. International Shipments Transporter Signature (for exported) Transporter 1 Printed/Typed National Shipments Transporter 2 Printed/Typed National Shipments	SCERTIFICATION: I hereby de ded, and are in all respects in proped Name    Import to U.S. orts only): nt of Receipt of Materials arme	clare that the contents of per condition for transpor	this consignment are t according to applicate Sign	e fully and accurately de able international and nature  S. Port of e Date lea	scribed above ational govern	re by the proper sh nmental regulation:	S.	Month Day  Month Day  Month Day
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DESIGNATED FACILITY'S COPY

1-800-997-6966

Reorder Part# MANIFEST-C6NHWC 913-897-6966

JUN 在普到中

Driver's

Butterfield Station Landfill

OVERLY

0005434

Ticket# 708688

Volume

Original

40404 S. 99th Ave. Mobile, AZ, 85239

Ph: 602-606-1008

Customer Name ERI Environmental Response In Carrier Vehicle# 209

Ticket Date 05/01/2014 Payment Type Credit Account

Manual Ticket#

Hauling Ticket# Route

State Waste Code 5114 Manifest

Destination

Profile

436746AZ (DRILL CUTTINGS)

160-THEGOODYEARTIRE THE GOODYEAR TIRE AND RUBBER CO Generator

74720 1b Gross Inbound Operator Scale Time 38320 15 Tare sculwell 05/01/2014 09:00:38 Inbound In 36400 lb Net sculwell Outbound 05/01/2014 09:52:30 Dut 18.20 Tons

Container

Billing #

Gen EPA ID

Driver

Check#

Grid

Comments

Prod	uet	LD%	Qty	MÓW	Rate	Tax	Anount	Origin ·
i 2 3	LiquidUnspec-Tons- FUEL-Fuel Surcharg EVF-P-Standard Env ADE-ADEQ Fee	100	18.20 18.20	Tons % % Tons				AZ AZ AZ AZ

"This is to certify that the following described merchandise was weighted and counted or measured by a public or deputy weighmaster, an when properly signed and sealed, shall be primafacie evidence of the accuracy of the weight shown prescribed by law"

"I certify that the waste I delivered to this facility on this date does DRIVER: PLEASE SIGN HERE not contain any regulated hazardous, toxic, radioactive waste or substances, or other non-allowable wastes. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility."

Total Tax Total Ticket

admixer Signature

ease	print or type { designed for use on elite (12		Section 4 Letter			*			製料技力			
T	NON-HAZARDOUS WASTE MANIFEST	Generator ID Number.,		2. Page 1 o	3. Emerg	ency Response	Phone	4. Waste Ti	acking Nur			
5.	, Generator's Name and Maili			<u> </u>	Generato	r's Site Addres	s (if different th	nan mailing addre	ess)	<del></del>		
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	Generator's Phone: (30)		<u> </u>		.L	·		U.S. EPA ID	Mumbar			
ì	. Transporter 1 Company Nar							I				
L	America Marrylo	a Company						1	~~~	0005045	39	
7.	. Transporter 2 Company Nar	me						U.S. EPA IO	Number			
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۲	acility's Phone: (3/19 )	<u> </u>		····		10. Cont	ainere	11. Total	12. Unit	1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,		
	9. Waste Shipping Nam	e and Description			-	No.	Туре	Quantity	Wt.Vol.			
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1	FIR Phone Che	367 46AZ vantzad 200 -538 B'S CERTIFICATION: Thereby	5-5053, CD 15-rg	s consignment	are fully and	accurately de	scribed above	by the proper sh	ipping name	a, and are classi	fied, pack	aged,
1	FIR Phone Che	367 46AZ vantzad 200 -538 B'S CERTIFICATION: Thereby		s consignment	are fully and	accurately de	scribed above	by the proper sh nental regulation	ipping name	a, and are classi	fied, pack	aged,
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0005434

Original

40404 S. 99th Ave. Mobile, AZ, 85239 Ph: 602-606-1008

Ticket# 708279

Volume

Customer Name ERI Environmental Response In Carrier OVERLY

Ticket Date 04/28/2014 Payment Type Credit Account

Manual Ticket#

Hauling Ticket# Routé

State Waste Code

Manifest 04282014

Destination 20

Grid

Profile

4367469Z (DRILL CUTTINGS)

Generator

160-THEGOODYEARTIRE THE GOODYEAR TIRE AND RUBBER CO

Inbound Gross 38600 15 Time Scale Operator 23460 lb Tare 04/28/2014 12:07:49 Inbound sculwell 15140 lb sculwell tsií 04/28/2014 12:45:27 Dutbound Tons 7.57

Vehicle#

Container

Billing #

Gen EPA ID

Driver Check#

Comments

` Prod	luct	LD%	Qty	MOU	Rate		Tax	Asount	Origin
1 2	LiquidUnspec-Tons- FUEL-Fuel Surcharg		7.57	Tons			•		AZ AZ
3	EVF-P-Standard Env			1/4		,			AZ
4 5	ADE-ADEO Fee WOL-Washout Fee	100 100	7.57 1	Tons Each		,			AZ

"This is to certify that the following described merchandise was weighted and counted or measured by a public or deputy weighmaster, and when properly signed and sealed, shall be primafacie evidence of the accuracy of the weight shown prescribed by law"

"I certify that the waste I delivered to this facility on this date does DRIVER: PLEASE SIGN HERE not contain any regulated hazardous, toxic, radioactive waste or substances, or other non-allowable wastes. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility."

Total Ticket

the Oxers

403WMFL-Butter

'lear	se print or type	se on élite (12-p	or supplied	200	)- 39	360C	00				
1	NON-HAZ	ARDOUS ANIFEST	1. Generator ID Number ABD07233	54035	2. Page 1 of	30	0-535-	-5053		racking Nu	mber
	The Go 200 In Akron,	lame and Mailing odycar i crovata.or ON 3431 one: 330	fira and Dibb <mark>a</mark> i 1 Say	r Co		The G 1633	oodyaa S. Li!	er Tico	d Road	ress)	
	Angon		Campany						U.S. EPA ID	AZR	000504639
Ш		Company Name acility Name and			***************************************			· · · · · · · · · · · · · · · · · · ·	U.S. EPA IC		
	Suttor 40404	field 31 S. 99th , AZ 351	tation Landfill Ave	L							
	Facility's Phone	602-25	8-0330							ASDS	83481813
	9. Waste	Shipping Name a	and Description				10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	
ENERATOR -	1. 3760	n Regule	sted Material,	Liquid, (I	DW Watez	•	1	LA		P	
- GENE	2.								,		
	3.				- aunores						
	4.										
	1) WP	9 BFS436 Stra Cham DR'S/OFFEROR'S	s and Additional Information 17.45AZ ICESC 200-535-5 S CERTIFICATION: I hereby decl d, and are in all respects in propr	are that the contents of th	nis consignment a	re fully and a	accurately de	scribed above	by the proper s	nipping nam	e, and are classified, packaged,
		eror's Printed/Typ		er continuer for transport		nature		1 11 C	tropy (A	1111	
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TRANSPORTER	Transporter 2 F	7 Our	alty / Out.	eleys.	Sig	nature	<u> </u>	<u> </u>	Com.	<u> </u>	Month Day Year
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Î		cy Indication Spac	Ce Quantity	□ Туре			Residue		Partial Re	ection	Full Rejection
FACILITY -	17b. Alternate l	Facility (or Genera	ntor)			Manifes	si Reference	Number.	U.S. EPA ID	Number	
DESIGNATED FA	Facility's Phone 17c. Signature	of Alternate Facilit	ty (or Generator)		1		***************************************	· · · · · · · · · · · · · · · · · · ·			Month Day Year

18 Designated Facility Owner or Operator; certification of receipt of materials covered by the manifest except as noted in Item 17a Signature

DESIGNATED FACILITY'S COPY

Reorder Part# MANIFEST-C6NHWC 913-897-6966

GC Labels • Printed In the USA 1-800-997-6966



Original

40404 S. 99th Ave. Mobile, AZ, 85239 Ph: 602-606-1008

Ticket# 708158

Volume

Customer Name ERI Environmental Response In Carrier **DVERLY** 

Ticket Date 04/25/2014 Payment Type Credit Account

Manual Ticket#

Hauling Ticket# Route

State Waste Code

Manifest 0-42514

Destination

P0

Profile Generator 436746AZ (DRILL CUTTINGS) 160-THEGOODYEARTIRE THE GOODYEAR TIRE AND RUBBER CO

Time Scale 04/25/2014 11:34:13 In Inbound 04/25/2014 11:34:23 Out Outbound

Operator sculwell sculwell

Inbound Gross Tare Net

0005434

81900 15\* 33960 15 47940 16

\* Manual Weight

Vehicle# 217

Container

Billing #

Gen EPA ID

Driver

Check#

Grid

Tons

23.97

Conments

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Örigin
i 2 3 4	LiquidUnspec-Tons- FUEL-Fuel Surcharg EVF-P-Standard Env ADE-ADED Fee	100	23.97	Tons % % Tons				AZ

"This is to certify that the following described merchandise was weighted and counted or measured by a public or deputy weighmaster, and when properly signed and sealed, shall be primafacie evidence of the accuracy of the weight shown prescribed by law"

"I certify that the waste I delivered to this facility on this date does DRIVER: PLEASE SIGN HERE not contain any regulated hazardous, toxic, radioactive waste or substances, or other non-allowable wastes. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility."

Total Tax Total Ticket

Driver's Signature

# 81900-217

	N-HAZARDOUS	Generator ID Number			mergency Respons		4. Waste	425		
	ASTE MANIFEST	A800724	54036	1 1	800-535- nerator's Sile Addres				19	
	erator's Name and Mail	ing Address Tire and Nubbes	r (**/*)		eraiors sile Addie: Goodyse			ress)		
20	a coccycar O Innovati	gine asa mawe. On Vev no	و فره س		59 S. Li					
	ron, on 44				odyear,					
Genera 6 Trac	ator's Phone: 330 isporter 1 Company Na	<u>796-0578</u> ***					U.S. EPA I	Number		
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	con Service Isporter 2 Company Na						U.S. EPA IO		the state of the state of	
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8. Des	ignated Facility Name a	and Site Address					U.S. EPA II	) Number	····	
		Station Landfill	1.						•	
	404 g. 996									
Facility	bila, AZ 3 's Phone: 602-2	02.59 PBS-0430						asb9	83491813	
			V. Walanta		10. Con	tainers	11. Total	12. Unit		
	9. Waste Shipping Nam	ne and Description			No.	Type	Quantity	Wt./Vol.		
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1.) 14. GE	W7% BFS41 Thoma Cha	36745AZ Bakred 800-535-5 BRS CERTIFICATION: I hereby deci	OS3, CD Requ	s consignment are ful	iy and accurately de	scribed abov	e by the proper s	hipping nam	e, and are classified, pa	ackaged,
1.) EST 14. GE ma	WDW BESAS REPORTE Cha	36745AZ BELTEO GOO-535-5 PR'S CERTIFICATION: I hereby decl urded, and are in all respects in propi	OS3, CD Requ	s consignment are ful cording to applicable	iy and accurately de international and n	scribed abov	mental regulatio	ns.		
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**Original** 

40404 S. 99th Ave. Mobile, AZ, 85239 Ph: 602-606-1008

Ticket# 708138

Customer Name ERI Environmental Response In Carrier OVERLY

Ticket Date 04/25/2014

Vehicle# 209

Volume

Payment Type Credit Account

Container

Manual Ticket# Hauling Ticket#

Driver Check#

Route State Waste Code

Billing # 0005434

Manifest

Gen EPA ID

Destination

Grid

PΠ

Profile

436746AZ (DRILL CUTTINGS)

Generator

160-THEGOODYEARTIRE THE GOODYEAR TIRE AND RUBBER CO

Time 04/25/2014 10:10:39 04/25/2014 11:28:49	 Operator sculwell sculwell	Inbound	Gross Tare Net	79840 1 38200 1 41640 1	b
			Tons	20 A	1:0

Comments

Pro	oduct	LD%	Qty	NOM	Rate	Tax	Amount	Origin
1 0	LiquidUnspec-Tons-		20.82		,	7 Cat (12) and	······································	AZ
2	FUEL-Fuel Surcharg			%				AZ

"This is to certify that the following described merchandise was weighted and counted or measured by a public or deputy weighmaster, and when properly signed and sealed, shall be printage to be properly signed and sealed, shall be printage to be properly signed.

"I certify that the waste I delivered to this facility on this date does DRIVER: PLEASE SIGN HERE not contain any regulated hazardous, toxic, radioactive waste or substances, or other non-allowable wastes. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility."

403WMFL-Butter

Please print or type

(Form designed for Use on alite (12-blich) by exertise)

79840-209...

(Form designed for use					[a n 4 ./I	2 Emergency Dec						
NON-HAZAF WASTE MAN		1. Generator ID /	Number AxidO72454C	138	2. Page 1 of	3. Emergency Res	ponse Phone 35~505:		Tracking Nu	imber	:	
5. Generator's Nar	ne and Maili			,		Generator's Site A	ddress (if diffe	rent than mailing ad	dress)	<del></del>		
200 Into	ovatı CH 44 ' 000	on Tay 316	d Andbor (	la		Tha Good 1858 J. Goodyear	Litchf	iald Acad 5338		***		
6. Transporter 1 C	ompany Nar	ne	•					U.S. EPA	ID Number			
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7. Transporter 2 C	empany Nar	ne	3					U.S. EPA	ID Number			
	_		•							•		
8. Designated Faci	lity Name ar	nd Site Address						U.S. EPA	ID Number			
Butterf 40404 S		Station I	Landfill									
Mobile.	AZ G	5239	,									
Facility's Phone:	<u> </u>	256-0530							AZD	98348181	3	
9 Waste St	inning Name	e and Description				10.	Containers	11. Total	12. Unit			1
	-pping man	- tina basarphan				. No.	Тур	e Quantity	Wt./Vol.	}		
1. Non	Bagu	lated Mat	cerial, Li	quid, (ID)	Water)	1	FI	5.000	94'			
2. 2.						.'						
3.												
4. 13. Special Handi												
14. GENERATOR'S marked and lab	eled/placaro	ded, and are in all re	N: I hereby declare the espects in proper cond	at the contents of this o	ording to applica	able international ar	nd national go	vernmental regulation	ons.			d, Year
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→ 15. International Sh	inments	77 77 76 1	77170		1 /		أ مركبانهم	312872 CV	CALLED TO	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1//	-/-
<b>⊢</b> 1		Import to	o U.S.	<u>L_</u>	Export from U.	S. Port	of entry/exit:		···			
- Transponer Signati	re (for expo	orts only):				Date	leaving U.S.:					
16. Transporter Act			terlals									
Transporter 2 Printe	ed/Typed Na	ame	Hea		Signa 	alure	$\bigcirc$	_		Month   ८./	Day	Year
Transporter 2 Print	ed/Typed Na	ame	· · · · · · · · · · · · · · · · · · ·		Signa	ature				Month	Day	Year
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17. Discrepancy												
17a. Discrepancy In	dication Spa	Quant	lity	Туре		Residue		Partial P	ejection		Full Rejection	n
17b. Alternate Facili	ly (or Gener	rator)				Manifest Refere	nce Number:	U.S. EPA I	D Number			
Facility's Phone:						*		1				1
17c. Signature of Al	ternate Faci	lity (or Generator)								Month	Day	Year
17b. Alternate Facility's Phone: 17c. Signature of Al			· ·			·						
18, Designated Fac	lity Owner	of Operator Codillo	alion of repoint of mot	erials covered by the n	manifest event	as noted in item 45						
Printed Typed Name	A A	Di Operator: Centilica	ation of receipt of mat	erials covered by the r	nanitest except a		a ( , (),	<u>0</u> .		Month	Pay 1	Year /
GC Labels	Printe	d in the US	A	200.244.60.00.2		WV-	Am	Reorde	r Part#	MANIFES	T-C6NI	HWC
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Original

40404 S. 99th Ave. Mobile, AZ, 85239 Ph: 602-606-1008

Ticket# 708033

Volume

Customer Name ERI Environmental Response In Carrier Spray Systems

Ticket Date 04/24/2014 Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route State Waste Code

Manifest

42414-1/42414-2

Destination P0

Profile Generator

436745AZ (THE GOODYEAR TIRE & RUBBER CO) 160-THEGOODYEARTIRE THE GOODYEAR TIRE AND RUBBER CO

Time Scale Doerator Inbound Gross 70240 lb 04/24/2014 11:16:31 Inbound sculwell Tare 38480 16 Out 04/24/2014 13:32:53 Outbound sculwell Net 31760 16 Tons 15.88

Vehicle#

Container

Billing #

Gen EPA ID

Driver

Check#

Grid

Comments

Pro	duct	LD%	Qty	MOU	Rate	Тах	Asount	Origin
1 2	ContSoilPet-Tons-S FUEL-Fuel Surchard		15.88	Tons %			,	AZ
3 4	EVF-P-Standard Env ADE-ADEQ Fee		15.88	% Tans				

"This is to certify that the following described merchandise was weighted and counted or measured by a public or deputy weighmaster, and when properly signed and sealed, shall be primafacie evidence of the accuracy of the weight shown prescribed by law"

"I certify that the waste I delivered to this facility on this date does DRIVER: PLEASE SIGN HERE not contain any regulated hazardous, toxic, radioactive waste or substances, or other non-allowable wastes. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility."

Total Tax Total Ticket

403WMFL-Butter

1	Plea	ase print or type: m designed for use on elite (12	7
	Å	NON-HAZARDOUS	1. Generator ID Number
1	Ĩ	WASTE MANIFEST	A80072454036
1	1	5. Generator's Name and Maili	ng Address

70220-305

A	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of		rgency Respons		4. Waste T	racking Nu	mber [			
	5. Generator's Name and Mailir	ng Address			lor's Site Addre			<u> </u>			<del></del>	
	The Cockyear	Tire and Bubbar Co.	··• §	The	Goodye	ar Tire	9 K				1	
	200 Irmovatic   Akron, CH 44)				3 S. Li iysar, .							
	Generator's Phone: 330	796-0578		ڊريونيء <u>ي</u>	<u> </u>	134 VVVV						
	6. Transporter 1 Company Nam						U.S. EPA IC		0003030	20		
	7. Transporter 2 Company Nam	Response Inc.					U.S. EPA ID		0003030	<i>36</i> .		
	14"								•			
	8. Designated Facility Name an	d Site Address	***************************************				U.S. EPA IC	Number	·		<del></del>	
	Succercieia :   40404 3. 99th	Station Landfill Ave						•			:	
	Mobile. AZ 88	5239					ı	s Serime	98348191	2	4 :	
	Facility's Phone: 602-2	<u> </u>	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		2 10. Con	tainare	I Tatal		90399303	<u>.                                 </u>		
	9. Waste Shipping Name	and Description	•		10. Con	Type	11. Total Quantity	12. Unit Wt./Vol.				
1	1. Non Ragul	ated Material, Solid	, (IDW Soil)			<del>                                     </del>					- 1	
TO				<b>3</b>	1.	CM	N.S.	r				
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	4.										•	
	_									11.		
	13. Special Handling Instructions and Additional Information											
	13. Special Handling Instructions and Additional Information  1) WP# BES436745A2, Bin # 56847  BR Phone Chesatres 800-535-5053, CD Required, BRI# 20-149103-4											
	<u> </u>	atreo 800-535-5053, C	D Required,	MAL	, 50-Ta:	103-4						
	- <del>(</del>											
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Н.	14. GENERATOR'S/OFFEROR marked and labeled/placard	'S CERTIFICATION: I hereby declare that the co ded, and are in all respects in proper condition for	ntents of this consignment a r transport according to appli	re fully ar cable inte	nd accurately de emational and n	scribed above l ational governm	by the proper st nental regulation	nipping namo ns.	e, and are classi	ied, packag	jed,	
	Generator's/Offeror's Printed/Tu	ned Name							15 Month	Day	Year	
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INT		import to U.S.	Export from I		Port of e	ntry/exit:				•		
	Transporter Signature (for expo				Date iea	ving U.S.:						
TRANSPORTER	16. Transporter Acknowledgme Transporter 1 Printed/Typed No.		Sic	nature		and section between the con-			Month	Day	Year,	
ğ		F ATTICE		/	$\gamma_{\dot{\nu}\sim}$	همسو سهندسوروه، ۵۰۰۰ م			14	1 741	14	
ANS	Transporter 2 Printed/Typed Na	ame	Sig	nature	7)		<del></del>		Month	Day	Year	
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A	17. Discrepancy			<u></u>								
	17a. Discrepancy Indication Spa	ace Quantity	Туре		Residue		Partial Re	jection		Full Rejection	on	
				Mor	ilest Reference	Mumbor						
ځ	17b. Alternate Facility (or Gene	rator)		IVACI.	meat tratelatica	Number.	U.S. EPA ID	Number				
FACILITY											ĺ	
FA	Facility's Phone:			<i></i>			<u></u>					
Ë	17c. Signature of Alternate Fac	ility (or Generator)							Month 1	Day	Year	
DESIGNATED							***					
ESI												
1			•				•					
	18. Designated Facility Owner	or Operator: Certification of receipt of materials co	overed by the manifest excer	t as note	d in Item 17a		· · · · · · · · · · · · · · · · · · ·				<u>-</u>	
	Printed/Typed/Name	1		nature	0 .				Month	Qay,	Year	
1	Lawah	15-		(a	ia !	Wes			14	124	14	

GC Labels • Printed in the USA 1-800-997-6966

DESIGNATED FACILITY'S COPY

Reorder Part# MANIFEST-C6NHWC 913-897-6966

DESIGNATED FACILITY'S COPY

913-897-6966

1-800-997-6966



Original

40404 S. 99th Ave. Mobile, AZ, 85239 Ph: 602-606-1008

Ticket# 709119

Spray Systems Customer Name ERI Environmental Response In Carrier

436745AZ (THE GOODYEAR TIRE & RUBBER CO)

Ticket Date 05/07/2014 Vehicle# 304

Volume

Payment Type Credit Account

42414-3

Container Driver

Manual Ticket# Hauling Ticket#

Check#

Route

Billing # 0005434

State Waste Code

Gen EPA ID

Manifest

Destination

Grid

PO Profile

Generator

160-THEGOODYEARTIRE THE GOODYEAR TIRE AND RUBBER CO

	Time	Scale	Operator	Inbound	Gross	55880	lb
In	05/07/2014 05:36:49	Inbound	cwilso30		Tare	35860	1b
Out	05/07/2014 06:10:24	Outbound	cwilso30		Net	20020	1 b
					Tone	ŧίλ	DA S

Comments

Product	LD%	Qt y	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-To 2 FUEL-Fuel Suro 3 EVF-P-Standaro 4 ADE-ADEQ Fee	charg 100	10.01	Tons // // Tons				AZ AZ AZ AZ

"This is to certify that the following described merchandise was weighted and counted or measured by a public or deputy weighmaster, and when properly signed and sealed, shall be primafacie evidence of the accuracy of the weight shown prescribed by law"

"I certify that the waste I delivered to this facility on this date does DRIVER: PLEASE SIGN HERE not contain any regulated hazardous, toxic, radioactive waste or substances, or other non-allowable wastes. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility."

Total Tax Total Ticket

403WMFL-Butter

Please print or type Form clesigned for use on sille (12-pilch) ty	pewriter.)	558	· 608	- 30-	1		•		<b>A</b>
NON-HAZARDOUS 1. Gene WASTE MANIFEST	rator ID Number AZE072454036		2. Page 1 of	3. Emergency Res	sponse Phone		Tracking Num		
5. Generator's Name and Mailing Addres The Goodyear Tire 200 Innovation Wa Akron, OH 44316 Generator's Phone: 330 79	s and Rubber Co.	<u></u>		Generator's Site A The Goody 1658 S. I Goodyear	ddress (# differen year Tir Litchfie	than mailing add e & Ro ld Road		<u> </u>	
6. Transporter 1 Company Name		~-				U.S. EPA K			
Environmental Res 7. Transporter 2 Company Name	ponse Inc.					U.S. EPA IC		0030303	2
8. Designated Facility Name and Site Add Butterfield Stati 40404 S. 99th Ave Mobile, AZ 85239 Facility's Phone: 602-256-06	on Landfill					U.S. EPA ID		3481813	
9. Waste Shipping Name and Des				10.	Containers	11. Total	12. Unit	CAGTOTO	
1. Non Doral of a	Material, Solic	1 (TD57	00111	No.	Туре	Quantity	Wt./Vol.		
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3.								٠,	
4.									
14. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placarded, and ar	FICATION: I hereby declare that the	contents of this co	ensignment ar	e fully and accurate	y described above	by the proper sh	ipping name, a	and are classified	d, packaged,
Generator's/Offeror's Printed/Typed Name	)	ror transport accor		able international ar	FILTHE	west kime	MINI 1	Month 4-	Day Y
15. International Shipments	Import to U.S.		Export from U		of entry/exit:	3357 Com	in in it	4-1	/7   /
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17a. Discrepancy Indication Space	Quantity	Туре		Residue		Partial Reju	ection	` 🏻 Fu	il Rejection
17b. Alternate Facility (or Generator)			-	Manifest Referer	nce Number:	U.S. EPA ID I	Number		
Facility's Phone:		•				1			
17c. Signature of Alternate Facility (or Gen	nerator)		<u> </u>			L		Month	Day Y
17b. Alternate Facility (or Generator)  Facility's Phone: 17c. Signature of Alternate Facility (or Gen	· ·					1			
18. Designated Facility Owner or Operator.	: Certification of receipt of materials of	covered by the ma	anifest except	as noted in Item 17a	1	· · · · · · · · · · · · · · · · · · ·	· .		<del></del>
Printed Typed Name	~	-	Sign	ature	1.0.7	)_		Month	Day Ye

GC Labels • Printed in the USA 1-800-997-6966

ROTARSHED OT YTHIOAR DETAMBIESD

Month 5 Reorder Part# MANIFEST-C6NHWC 913-897-6966



Original

40404 S. 99th Ave. Mobile, AZ, 85239 Ph: 602-606-1008

Ticket# 709619

Spray Systems Customer Name ERI Environmental Response In Carrier

05/13/2014 Ticket Date Payment Type Credit Account

Vehicle# 304 Container

Volume

Manual Ticket#

Driver Check#

Hauling Ticket#

Billing # 0005434

Route

Gen EPA ID

State Waste Code

42414-6

Manifest

Grid

Destination

 $p_0$ 

Profile

436745AZ (THE GOODYEAR TIRE & RUBBER CO)

Generator

160-THEGOODYEARTIRE THE GOODYEAR TIRE AND RUBBER CO

Time Scale In 05/13/2014 05:38:50 Inbour Out 05/13/2014 06:06:27 Outboo	d cwilso30	nd Gross fare Net Tons	61360 lb 36120 lb 25240 lb
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Conments

Prod	uct	LD%	Qtγ	MOU	Rate	Tax	Amount	Origin
	SowasteSolidOth-To FUEL-Fuel Surcharg EVF-9-Standard Env ADE-ADEO Fee	100	12.62 12.62	Tons % % Tons				AZ AZ AZ AZ

<sup>&</sup>quot;This is to certify that the following described merchandise was weighted and counted or measured by a public or deputy weighmaster, an when properly signed and sealed, shall be primafacie evidence of the accuracy of the weight shown prescribed by law"

"I certify that the waste I delivered to this facility on this date does DRIVER: PLEASE SIGN HERE not contain any regulated hazardous, toxic, radioactive waste or substances, or other non-allowable wastes. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility."

Total Tax Total Ticket

Pleasin print or type:
(Form designed for use on ellte (12-pitch) typewriter.)

A NON-HAZARDOUS I. Generator ID Number

12 Page 1 of 12 Expersed Designed for Use of the Company of the Co

1		NON-HAZARDOUS WASTE MANIFEST . Cenerator's Name and Maillr	1. Generator ID Number AZD0724540	036	2. Page 1 of 1.		-535	-5053	4. Waste Tracking Number 42414-6			
		The Coodyear 200 Immovatic Alicon, OH 443 Generator's Phone: 330	Tire and Rubber (	30 to 15	I	The Go 1358 S	odys Li	ar Tire	d Road	ress)		
	6.	Transporter   Company Nam Environmental	. Response Inc.		<u></u>				U.S. EPA IC		000303032	
		. Transporter 2 Company Nam						·	U.S. EPA ID	J.S. EPA ID Number		
Com (4.7%)	8.	Designated Facility Name and Butterfield S 40404 S. 99th	d Site Address tation Landfill Ave			خو.ئين. ١٠٠٠		-	U.S. EPA ID	Number	· · · · · · · · · · · · · · · · · · ·	
8		Mobile, AZ 85			*			i	ASD983481813			
S Property of		9. Waste Shipping Name	•		,		10. Con	ntainers Type	11. Total Quantity	12. Unit Wt./Vol.		
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			S CERTIFICATION: I hereby declare tha d, and are in all respects in proper cond	t the contents of this co	nsignment are	fully and accu	rately des	scribed above b	y the proper ship	ping name,	and are classified, pack	aged,
¥	Ge	nerator s/Offeror's Printed/Typ	ed Name			alure	Kut	1118 40	152 COM	1121	Month Day	Year
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RTER	16. Tra	Transporter Acknowledgment insporter 1 Printed/Typed Name	of Receipt of Materials		Signa		Dato leave	ung 0.0	-		Marsh	
TRANSPORTER	Tra	nsporter 2 Printed/Typed Nam	e be broke		Signa		E		>	<u> </u>	Month Day    5   /3    Month Day	Year
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- VIII	17b	. Alternate Facility (or Generate	or)			Manifest Re	lerence N	lumber:	U.S. EPA ID N	mber		
TED FA		llity's Phone: . Signature of Alternate Facility	(or Generator)				<u>-</u>	· , ]	·	····	Month Day	Year
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<b>V</b>	1181	- A A	1, ) ;   5, -	overlan by the filal	Signat		$\left(\right)_{2}^{1/a}$	[ []	·		Month Day	Year
G	Ci	.abels • Printed 1-800-997-69	in the USA 66	DESIGNATED F	ACILITY I	TO GENER	RATTOR	F			ANIFEST-C6N 97-6966 →	HWC



Original

40404 S. 99th Ave. Mobile, AZ, 85239 Ph: 602-606-1008

Ticket# 709759

Customer Name ERI Environmental Response In Carrier Spray Systems

Ticket Date 05/14/2014 Vehicle# 305

Volume

Payment Type Credit Account

42414-4

Container

Manual Ticket# Hauling Ticket# Driver

Route

Check#

Billino # 0005434

State Waste Code

Gen EPA ID

Manifest

Destination

Grid

PO

Profile

436745AZ (THE GOODYEAR TIRE & RUBBER CO)

Generator

160-THEGOODYEARTIRE THE GOODYEAR TIRE AND RUBBER CO

	Tiae	Scale	Operator	Inbound	Gross	68020 15*
In	05/14/2014 06:57:48	Inbound	- șculwell		Tare	35720 16
Out	05/14/2014 07:35:39	Outbound	sculwell		Net	32300 lb
Comm	nents Attendant wei	ighed out wron	* Manual Weight g truck-manual weight		Tons	16.15

Pro	duct	LD%	Qty	NOM	Rate	Тах	Aaount	Origin
i	SpwasteSolidOth-To	100	16.15	Tons				AZ
(2	FUEL-Fuel Surcharg	100		1/4				AZ
3	EVF-P-Standard Env	100		4				ΑZ
ĺ;	ADE~ADED Fee	100	16, 15	Tons				Ω7

"This is to certify that the following described merchandise was weighted and counted or measured by a public or deputy weighmaster, and when properly signed and sealed, shall be primafacie evidence of the accuracy of the weight shown prescribed by law"

"I certify that the waste I delivered to this facility on this date does DRIVER: PLEASE SIGN HERE not contain any regulated hazardous, toxic, radioactive waste or substances, or other non-allowable wastes. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility."

Total Tax Total Ticket

403WMFL-Butter

**(1)** 

	se print or type: m designed for use on elite (12-pitch) typewriter.)	oble ,	
A	NON-HAZARDOUS 1. Generator ID Number . 2. Pa	ge 1 of 3. Emergency Response Phone 1. 300-535-5053	4. Waste Tracking Number 4241 4-4
	5. Generator's Name and Mailing Address Thus Goverty caus Time and Budobas Co 200 Innovation Way Alchon, OH 4431.6 Generator's Phone: 330 796~0570	Generator's Site Address (if differe The Goodycan Ti 1658 S. Litubiti Goodyear, Ab 35	re 4 Bi eld Road
	6. Transporter 1 Company Name		U.S. EPA ID Number
	Environmental Response Inc. 7. Transporter 2 Company Name	1	U.S. EPA ID Number
	Transporter E Company Humb		O.O. LI A ID Mullion
	8.Designated Facility Name and Site Address Butterfield Station Landfill 40404 S. 99th Ave Mobile, AZ 85239		U.S. EPA ID Number
	Facility's Phone: 602-256-0630	10. Containers	AZD983431813
	9. Waste Shipping Name and Description	· No. Type	11. Total 12. Unit Quantity Wt./Vol.
GENERATOR -	1 Non Regulated Material, Solid, (IDW Sci	1 CM	т
- GENE	2.		
	3:		
	4.		
	13. Special Handling Instructions and Additional Information	<u> </u>	
	1) WP# BF5436745AZ, Bin # (0) (0) ER Phone Chemtres 800-535-5053, CD Require	d, ERI# 20-149103-4	· · · · · · · · · · · · · · · · · · ·
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consign marked and labeled/placarded, and are in all respects in proper condition for transport according	to applicable international and national government	ernmental regulations
¥	Generator's/Offeror's Printed/Typed Name  Con R. ComcK	Signature Which For	ME GODDYENZ The Month Day Year Russ & 2 Co. MANN   4 17 A
R INT'L	Transporter Signature (for exports only):  16. Transporter Acknowledgment of Receipt of Materials	t from U.S. Port of entry/exit:	
ORTE	Transporter 1 Printed/Typed Name	Signature	Month Day Year
TRANSPORTER	Transporter 2 Printed/Typed Name	Signature	8 1.4 14 Month Day Year
A	17. Discrepancy 17a. Discrepancy Indication Space		
	L] Quantity L] I ype	Residue  Manifest Reference Number:	Partial Rejection Full Rejection
ACILITY	17b. Alternate Facility (or Generator)		U.S. EPA ID Number
DESIGNATED FACILITY	Facility's Phone:  17c. Signature of Alternate Facility (or Generator)		Month Day Year
- DESIG			
A	18: Designated Facility Owner of Operator: Certification of receipt of materials covered by the manifest Printed Typed Name	st except as noted in term 17a Signature	Manib Day / Year,
4	C Labels • Printed in the USA		Beorder Part# MANIFEST-C6NHWC

1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

913-897-6966



Original

40404 S. 99th Ave. Mobile, AZ, 85239 Ph: 602-606-1008

Ticket# 709937

Customer Name ERI Environmental Response In Carrier Spray Systems

Ticket Date 05/15/2014

Vehicle# Container Volume

Payment Type Credit Account Manual Ticket#

42414-5

Driver

Hauling Ticket# Route

Check#

0005434 Billing #

State Waste Code

Gen EPA ID

Manifest

Destination

Grid

90

Profile

436745AZ (THE GOODYEAR TIRE & RUBBER CO)

Generator

160-THEGOODYEARTIRE THE GOODYEAR TIRE AND RUBBER CO

	Time	Scale	Operator	Inbound	Gross	62920 lb
In	05/15/2014 13:23:34	Inbound	sculwell		Tare	36160 15
Out	05/15/2014 13:56:49	Outbound	sculwell		Net	26760 lb
					Tons	13.38

Comments

Pró	duct	LD%	Qty -	MOU	Rate	Tax	Asount	Origin
1	SpwasteŚolidOth-To		13.38	Tons				AZ AZ
2 3	FUEL-Fuel Surcharg EVF-P-Standard Env		1	7. 4.				AZ
4	ADE-ADEQ Fee	100	13.38	Tons				AZ

"This is to certify that the following described merchandise was weighted and counted or measured by a public or deputy weighmaster, and when properly signed and sealed, shall be primafacie evidence of the accuracy of the weight shown prescribed by law"

"I certify that the waste I delivered to this facility on this date does DRIVER: PLEASE SIGN HERE not contain any regulated hazardous, toxic, radioactive waste or substances, or other non-allowable wastes. I also agree to remove any non-allowable wastes I bring to this facility, or pay all costs for proper removal of such wastes, upon request from this facility."

Total Tax Total Ticket

TISTI TO GENTIOUS	. Generator ID Number AZDO 724	151A25		of 3. Emergency Respo	nse Phone		racking Nu		* 1
5. Generator's Name and Mailing				Generator's Site Add				4-5	
5. Generator's Mame and Mailing "Line Goodyear L 200 Lunovation	ı <i>Ha</i> y	an Car		The Goody	ear fix	e 4 10	1033)		
Aknon, OH 4431	.5 - 796-0578			_1000 а. д.  Coodyear,					
Generator's Phone: 339 6. Transporter 1 Company Name	736-0576					U.S. EPA IC	) Number		
Environmental	Response Inc.					1		000303032	
7. Transporter 2 Company Name						U.S. EPA IC	Number 1		
8. Designated Facility Name and S	Site Address					U.S. EPA ID	) Number		
Butterfield St 40404 S. 99th						0.0. 2. 7.12	, ttambor		
Modile, AZ 852 Facility's Phone: 602-250	39					1	አ ሚነነር	983481813	
				10. C	ontainers	11. Total	12. Unit	703-201013	
9. Waste Shipping Name a				No.	Туре	Quantity	Wt.Vol.		
1. Non-Regula	ted Material,	Solid, (II	W Soil)	1	CM		T		
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<b>4</b>									
51.39 18 <sup>3</sup> 1.				l l					
13. Special Handing Instructions 1) WEW BFS436 ER Phone Chemi	trec 800-535-	5053, CD Red							:
ER Phone Chemi  14. GENERATOR'S/OFFEROR'S marked and labeled/placarded Generator's/Offeror's Punted/Type	CERTIFICATION: I hereby dec, and are in all respects in proj	5053, CD Red	his consignment according to appl	are fully and accurately	described above	mental regulation	S.		
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14. GENERATOR'S/OFFEROR'S marked and labeled/placarded Generator's/Offeror's Printed/Type  15. International Shipments  Transporter Signature (for exports  16. Transporter Acknowledgment of the second seco	CERTIFICATION: I hereby dec, and are in all respects in project of Mame  Import to U.S. only):	5053, CD Red	his consignment according to appl	are fully and accurately licable international and gnature U.S. Port of	described above national governational filt flugger for the filter	mental regulation	s. utni	Month Day	<del>-</del>
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14. GENERATOR'S/OFFEROR'S marked and labeled/placarded Generator's/Offeror's Printed/Type	CERTIFICATION: I hereby dec, and are in all respects in project of Mame  Import to U.S. only):  of Receipt of Materials  a  Quantity  (or Generalor)	clare that the contents of the condition for transport	his consignment a according to applicate the consignment of according to applicate the construction of the	ere fully and accurately incable international and ignature  U.S. Port of Date is gnature  Gnature  Residue  Manifest Reference	described above national government of the second s	mental regulation  Corvert E.  SEN Corre	s.  LITAL  MAL  PLANT  Ection	Month Day  Month Day  Full Rej	ection
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# **APPENDIX E**

Results of Hydrostatic Testing for Well E-103



Haley & Aldrich, Inc. One Arizona Center 400 E. Van Buren St., Suite 545 Phoenix, AZ 85004 602.760.2450

### **TECHNICAL MEMORANDUM**

22 July 2015 File No.: 39049

**TO:** Project File - Phoenix Goodyear Airport South Superfund Site

FROM: Pejman Eshraghi, P.E., Project Engineer

**SUBJECT:** Result of the Hydrostatic Pressure Testing of the Extraction Well E-103 Pipeline

The purpose of this technical memorandum (tech memo) is to document the result of the hydrostatic pressure testing of the extraction well E-103 pipeline.

The test was conducted in accordance with the procedures set forth in the "E-103 Well and Water Line Installation Design, General Notes, Project Specific Notes Q – Hydrostatic Test Specification", dated 12 March 2014. Testing began on 24 March 2014 and ended on 25 March 2014. The testing duration was 27 hours.

Initial Pipeline Pressure: 190 pounds per square inch (psi)

Final Pipeline Pressure: 200 psi

There was no measured pressure loss during the test period.

**APPENDIX** F

Wellhead Survey



1275 WEST WASHINGTON STREET, SUITE 108 - TEMPE, AZ 85281 OFFICE: 602-273-2900 - FAX: 602-273-2901 - www.m-m.net

# GOODYEAR WELL SITES

12/08/2014

### NAD83 HORIZONTAL—NAVD88 VERTICAL (GEIOD 12A)

EO-20 RIM=958.99 PVC=958.74

N) 882381

E) 562110

LA 33°25'29.21"

LN-112°22'07.03"

E-20 RIM=958.50 B PVC=958.55

N) 882392

**E)** 562117

LA 33°25'29.32"

LN-112°22'06.94"

EO-19 RIM=946.40 PVC=946.32

N) 881245

E) 561295

LA 33°25'17.94"

LN-112°22'16.59"

E-19 RIM=946.25 PVC=946.27

N) 881252

E) 561267

LA 33°25'18.01"

LN -112°22'16.91"

EO-18 RIM=942.296 PVC=941.852

N) 880181

E) 560494

LA 33°25'07.37"

LN-112°22'25.98"

E-18 RIM=942.506 PVC=942.456

N) 881167

E) 560445

LA 33°25'07.22"

LN-112°22'25.56"



E-202 RIM=N/A PVC=N/A FRAME OF ACCESS PANEL= 963.43

N) 885037

**E)** 562087

LA 33°25'55.48"

LN-112°22'07.44"

E-103 RIM=N/A PVC=982.678

N) 888283

**E)** 561987

LA 33°26'27.59"

LN-112°22'08.78"

GMW -28A RIM=963.133 PVC=962.872

N) 884930

**E)** 564795

LA 33°25'54.54"

LN-112°21'35.48"

GMW-27A RIM=N/A PVC=962.90

N) 885343

**E)** 564907

LA 33°25'58.63"

LN-112°21'34.18"

